ORDER NO.DSD0403007C1

B24

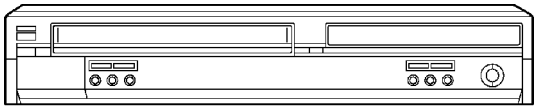
Service Manual

DVD Video Recorder

DMR-E75VP

Colour

(S).....Silver Type



Note 1. <DVD Drive>
VXY1813: Order No. RAM0402001C0
Note 2. <VHS Mechanisim>
R4 MECHANISM CHASSIS for North America Model : Order No. VR0404003C1

SPECIFICATIONS

Specifications

Power Supply		AC 120 V ±10%, 50/60 Hz ±10%
Power Consumption		32 W(Approx. 2 W in power save mode)
DVD	DVD Recording format:	DVD-RAM: DVD Video Recording format DVD-R: DVD Video for mat Audio: Dolby Digital 2CH
	Optical pickup	System with 1 lens, 2 integration units (wavelength: 658 nm for DVD, 795 nm for CD)
	Recording disc:	DVD-RAM: 12 cm (5") 4.7 GB, 12 cm (5") 9.4 GB, 8 cm (3") 2.8 GB DVD-R: 12 cm (5") 4.7 GB, 8 cm (3") 1.4 GB (for General Ver.2.0) 12 cm (5") 4.7 GB (for General Ver.2.0/4 × -SPEED DVD-R Revision 1.0)
	Recording mode/ recording time	XP: approx. 10 Mbps/ approx. 60 min SP: approx. 5 Mbps/ approx. 120 min LP: approx. 2.5 Mbps/ approx. 240 min EP: approx. 1.7/1.2 Mbps/approx. 360/480 min (with 4.7 GB disc)
	Playable discs	DVD-RAM: 12 cm (5") 4.7 GB, 12 cm (5") 9.4 GB, 8 cm (3") 2.8 GB DVD-R: 12 cm (5") 4.7 GB, 8 cm (3") 1.4 GB (for General Ver.2.0) 12 cm (5") 4.7 GB (for General Ver.2.0/4 X -SPEED DVD-R Revision 1.0) DVD-Video, DVD-Audio, Video CD, CD-Audio (CD-DA), CD-R/RW (MP3, CD-DA, Video CD formatted discs)
	Drive Unit	High Speed Drive (corresponds to 4 times speed with DVD-R disc)
	Video interface Output:	**Phono:** CVBS: 1 Vp-p Zout: 75 ohm **S-Video:** Y: 1 Vp-p, C: 286 Vp-p Zout: 75 ohm **RCA (YPBPR):** Y: 1 Vp-p, PB: 0.7 Vp-p, PR: 0.7 Vp-p Zout: 75 ohm
	Audio interface	**Input:** **L1: Phono:** Standard: 309m Vrms, FS: 2 Vrms at 1 kHz Zin: 22 k ohm **L2: Phono:** Standard: 309m Vrms, FS: 2 Vrms at 1 kHz Zin: 22 k ohm **Output:** Dolby Digital 2CH. **Phono:** Standard: 309m Vrms, FS: 2 Vrms at 1 kHz Zout: less than 1 k ohm **Digital Audio:** Optical Output connector (PCM, Dolby Digital, DTS)
	Video data:	**Horizontal resolution:** XP: 500 lines SP: 400 lines LP: 200 lines EP: 200 lines **Signal to Noise Ratio:** More than 45 dB **Frequency Response:** XP, SP: 0±3 dB at 4 MHz (0 dB at 0.1 MHz). (Fine mode) LP, EP: 0±3 dB at 2 MHz (0 dB at 0.1 MHz), (Fine mode)
	Audio data:	**Dynamic Range:** Hed/PB: more than 90 dB DVD-Video PB (with LPCM): more than 99 dB CD PB: more than 97 dB **Frequency Response:** XP, SP, LP, EP (6H mode): 20 Hz–20 kHz (0±3 dB) EP (8H mode): 20 Hz–12 kHz (0±3 dB) **Cross Talk:** More than 60 dB at 1 kHz

LASER Spec.	Class 1 LASER Product	**Wave Length:** 795 nm, 658 nm **Laser Power:** No hazardous radiation is emitted with safety protection
VHS	Recording format:	VHS Video Cassette System Standard with FM audio
	Heads:	4 helical scan heads for video 2 helical scan heads for FM audio 1 fixed head for Normal audio
	Recording modes/ recording time:	NTSC SP: 33.35 mm/s, 120min NTSC EP: 11.12 mm/s, 360 min (with T-120 cassette)
	others:	FF/RW: approx. 54 s, Jet RW: approx. 36 s (with T-120 cassette)
	Audio interface	**Input:** **L1:** **Phono:** 309m Vrms Zin: 22 k ohm **L2:** **Phono:** 309m Vrms Zin: 22 k ohm
	Video data:	**Horizontal resolution:** More than 200 lines **Signal to Noise Ratio:** More than SP: 40 dB EP: 40 dB **Frequency Response:** SP, EP: -4.5–4.0 dB at 2 MHz (0 dB at 0.1 MHz)
	Audio data:	**Dynamic Range:** HiFi: more than 90 dB **Frequency Response:** HiFi: 20 kHz–20 kHz (0±3 dB) Normal SP: 80 kHz–8 kHz (0±4 dB) Normal EP: 80 kHz–4 kHz (-1±5 dB) **Signal to Noise Ratio:** HiFi: more than 65 dB Normal SP: more than 43 dB Normal EP: more than 41 dB **Cross Talk:** More than 50 dB at 1 kHz (HiFi) **Wow and Flutter:** HiFi: less than 0.005 Wrms Normal SP: 0.2% max Normal EP: 0.4% max
DVD/ VHS Common	Video interface:	**TV system:** NTSC **Input:** **L1:** **Phono:** CVBS: 1 Vp-p Zin: 75 ohm **S-Video:** Y1: 1 Vp-p, C: 0.286 Vp-p Zin: 75 ohm **L2:** **Phono:** CVBS: 1 Vp-p Zin: 75 ohm **S-Video:** Y1: 1 Vp-p, C: 0.286 Vp-p **Output:** **Phono:** CVBS: 1 Vp-p Zout: 75 ohm
	Audio interface:	**Output:** **Phono:** **DVD:** Standard: 0.5 Vrms, FS: 2 Vrms at 1 kHz Zout: less than 1 k ohm **VHS** 309m Vrms Zout: less than 1 k ohm
	Tuner RF:	**Tuner system:** NTSC-M **Channel coverage:** VHF: 2ch–13 ch 75 ohm UHF: 14ch–69ch 75 ohm CATV: 5A&A-5ch–EEEch 75 ohm One tuner (DVD and VCR common use) **RF converter:** Not provided
Dimensions (W)X(H) X(D)		Approx. 430 × 89 × 352 mm
Mass		Approx. 5.8 kg
Operating Temperature		5 ° C–40 ° C
Operating Humidity		35%–80% RH (no condensation)
Solder		This model uses lead free solder (PbF).

Notes: Mass and dimensions are approximate.

Specifications are subject to change without notice.

Panasonic

1. Safety precautions

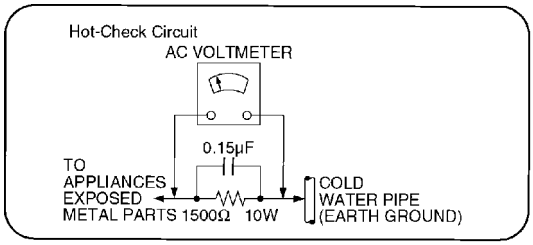
1.1. General guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage current cold check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1



1.1.2. Leakage current hot check / (See Figure 1 .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.

5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliampere. In case a measurement isoutside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

1.2. Caution for fuse replacement

CAUTION:
Replace with the same type fuse:
(Manufacturer: SOC or Hollyland, Type: ET or 50T, 2A, 250V)

2. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatic Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistor-sandsemiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**

5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficientto damage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

CAUTION:

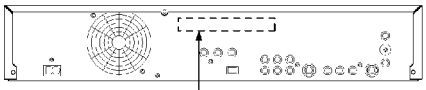
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wave length: 658 nm/795 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

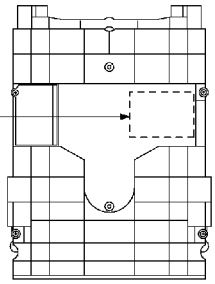
ACHTUNG:

Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 658 nm/795 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.



Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture.
Matsushita Electric Industrial Co., Ltd.
Kadoma, Osaka, Japan



CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top case and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.

2. Unsolder the Lithium Batteries: B7751 and then replace it into new one.
(As shown in 23.2.3. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2354-1GUF Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

CAUTION
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:
P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

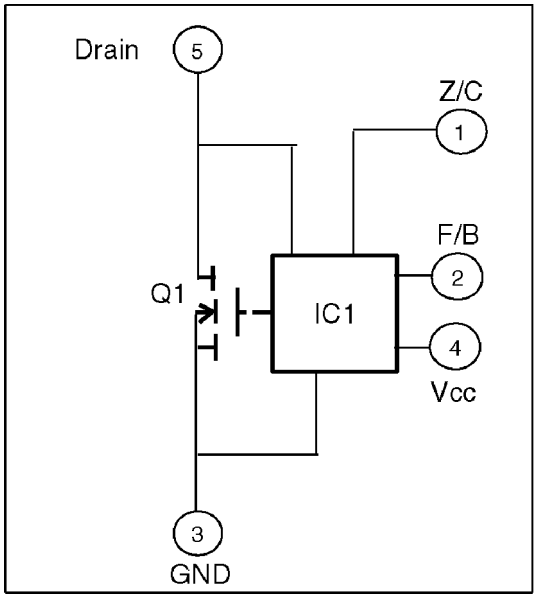
6. Each Buttons

7. New Features

7.1. Function of Power Circuit (IC11150)

1. General
We adopted IC module as the Switching Power Circuit for lower power consumption.
IC11150 is constructed with Switching materials and Control IC, and is partial resonance module.
We realized Switching Power with high efficiency, low noise and low power consumption.

2. Equivalence Circuit to IC11150

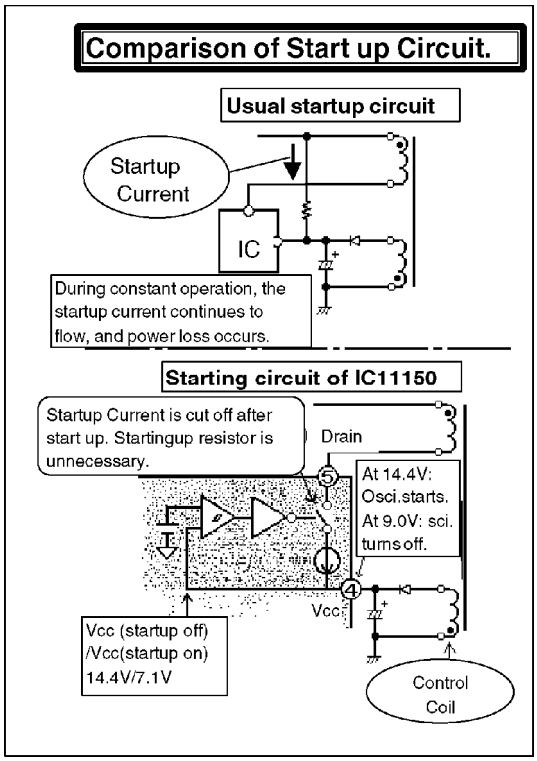


Pin No.	Symbol	Description
1	Z/C	Trigger input terminal. Zero detection voltage: 0.25V It becomes less than 3V, the mode turns to standby.
2	F/B	Bias current feedback input terminal. ● Switching ON time (min.) ~ (max.) 1.5V ~ 4.5V / 0 μ sec. ~ 25 μ sec. ● In standby mode Oscillation stops:less than 0.8V Oscillation starts: over 1.8V
3	GND	GND terminal
4	Vcc	Power terminal of IC. Oscillation starting voltage: Vcc = and over 14.5V Oscillation stop voltage: Vcc = and less than 9.6V Over voltage latching voltage: Vcc = 20V
5	Drain	Drain terminal for Main switching material.

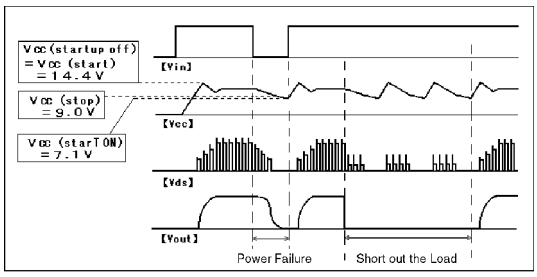
3. Startup Circuit

When power is turned on, input voltage of the Switching Transformer is supplied to IC11150 as the startup power.

After IC11150 has started, the startup current is cut off.
The current of Startup Circuit is supplied as constant current source in IC11150 and as charge current for the capacitor connected between Vcc terminal and GND out side of IC11150 until Vcc reaches 14.4V.
When Vcc reaches 14.4V, the Startup Circuit is cut off, then oscillation starts.
After then, power of IC11150 is supplied from control coil.
In case, the power failure or short out of the load, when Vcc becomes 9.0V; the oscillation stops, furthermore Vcc becomes 7.1V the Startup Circuit starts up and Vcc starts to rise.



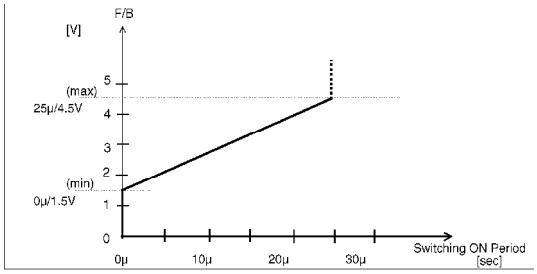
Startup Circuit Timing Chart



Function of Z/C Terminal
When voltage of Z/C reaches 0.25V, Gate signal is output and Drain current starts to flow.

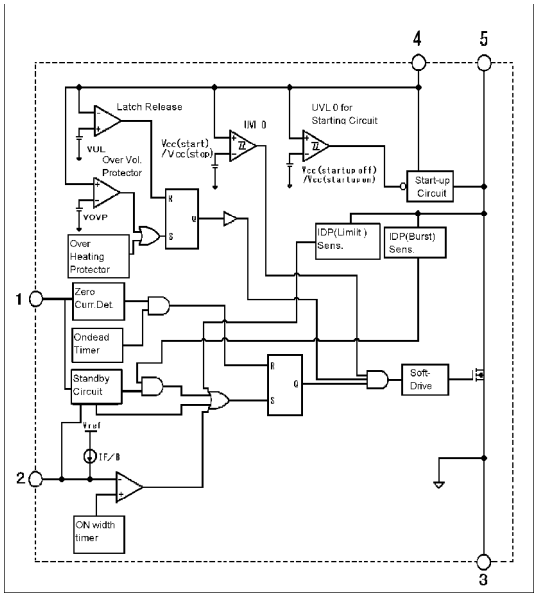
Function of F/B terminal
F/B signal decides Switching ON width in low voltage controlling.

The Switching ON width responds to change of F/B Voltage.



Standby Function
When Z/C Voltage becomes less than 3V, the unit changes to Standby mode.

IC11150 Block Diagram



Signal name

Pin No.	Name	Symbol
1	Zero Current Det.	Z/C
2	Feed back	F/B
3	GND	GND
4	Vcc	Vcc
5	Drain	Drain

8. (DVD) Taking out the Disc from RAM-Drive Unit

when the Disc cannot be ejected by OPEN/CLOSE button

8.1. (DVD) Forcible Disc Eject

8.1.1. (DVD) When the power can be turned off.

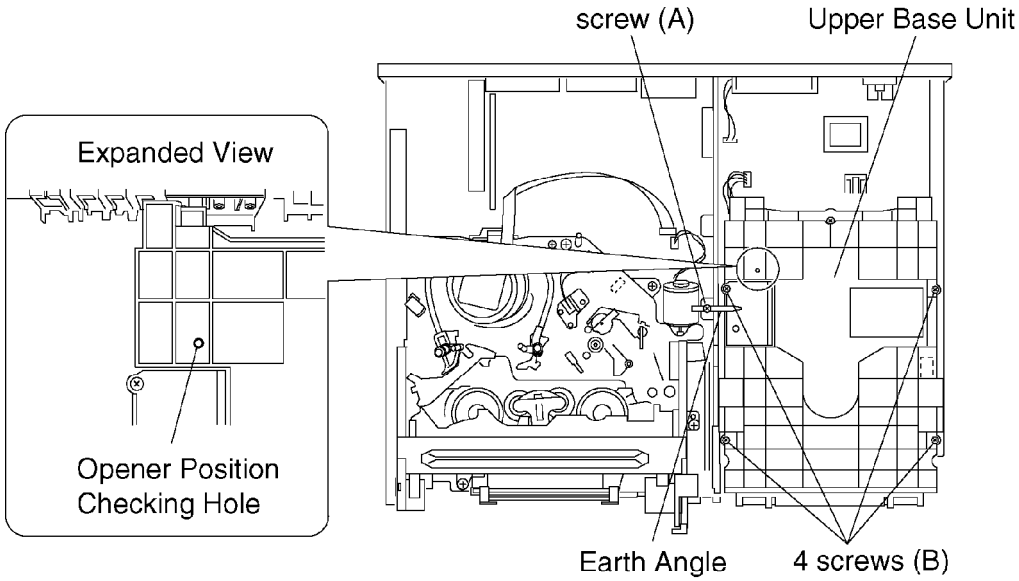
1. Turn off the power and press [(DVD) STOP], [(DVD) CH UP] keys on the front panel simultaneously for 5 seconds.

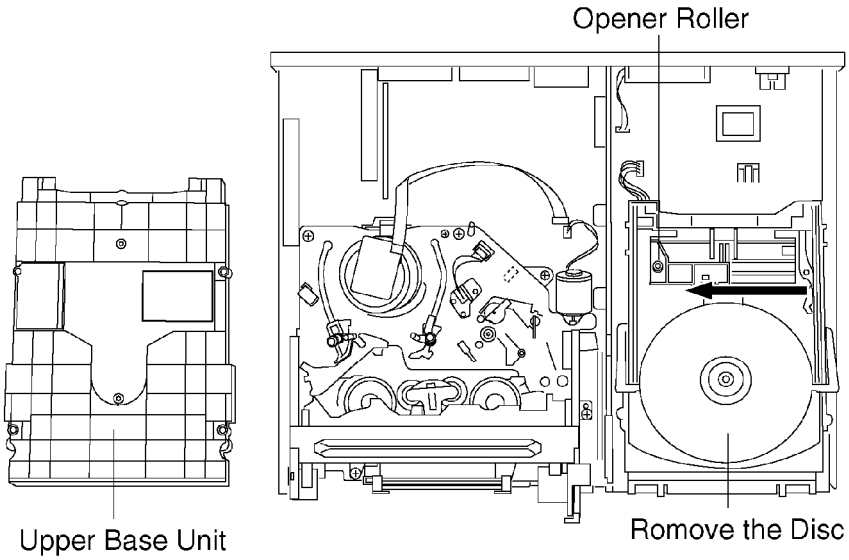
8.1.2. (DVD) When the power can not be turned off.

1. Press [POWER] key on the front panel for over 10 seconds to turn off the power forcibly, and press [(DVD) STOP] [(DVD) CH UP] keys on the front panel simultaneously for 5 seconds.

8.2. (DVD) When the Forcible Disc Eject can not be done.

1. Turn off the power and pull out AC cord.
2. Remove the Top Case.
3. Remove the Front Panel.
4. Remove screw (A) and Earth Angle.
5. Remove 4 screws (B) and Upper Base Unit from DVD-RAM Drive.
6. Take out the disc and put the Opener Roller on fully position for direction of Arrow.
7. Put the Upper Base Unit so that the Opener Roller is inserted into the groove.
8. Check center of Opener Roller is seen through the Opener position Checking Hole, and tighten 4 screws (B).





9. (VHS) Removing Cassette Tape manually

When the cassette tape could not be uninstalled from an electrical malfunction, there are 2 ways to remove a cassette tape.

9.1. (VHS) Removal by compulsory unloading.

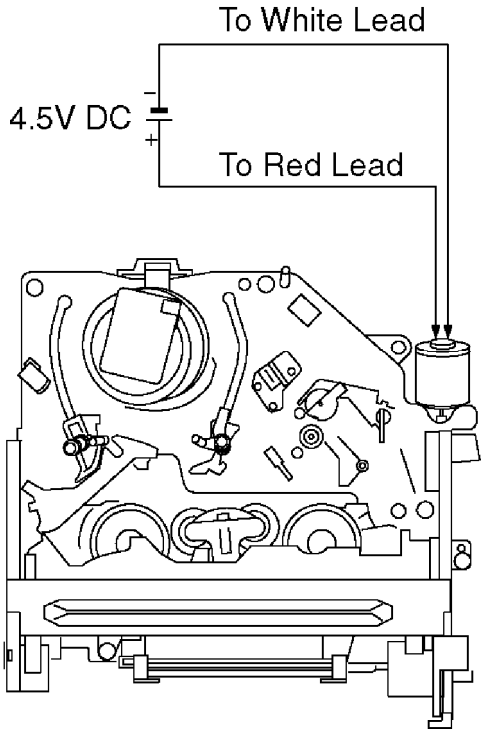
If Service Mode can be activated when the power can not be turned on, this operation is able.

1. **Press [FF] and [EJECT] button simultaneously for more than 3 seconds and set the Service Mode to 7.**
2. **Press [STOP] button in order to unload the mechanism. (Pay attention to tape slack)**
   Service Mode Display:
   7 ** ** (STOP) → 7 0L ** (EJECT)

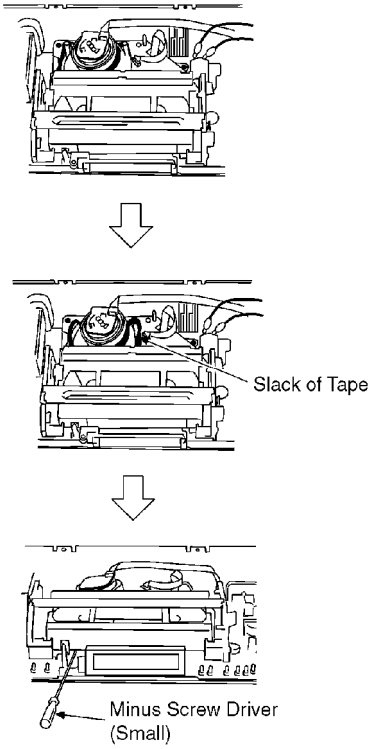
9.2. (VHS) Removal by manual operation by rotating the Loading Motor with the batteries.

1. **Disconnect the AC plug, and remove the Top Panel and the Front Panel by referring to the Disassembly Procedures.**
2. **Connect three batteries (1.5V spec.) to the Loading Motor in series for supplying 4.5V to rotate the Loading Motor as shown below.**

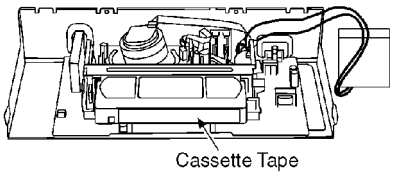
CONNECTION for UNLOADING



3. **Stop unloading just before unloading will be completed as shown below, and then the tape becomes slack as shown below.**
4. **Rotate the S-Reel by a small minus screwdriver to remove the slack tape as shown below.**



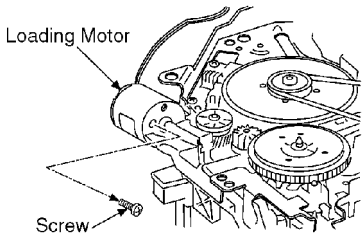
5. Then unload again to remove the cassette tape as shown below.



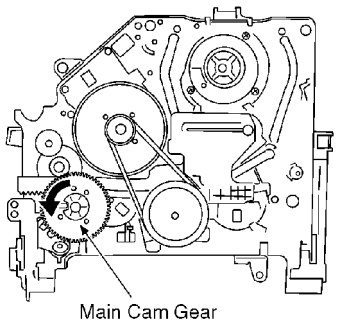
9.3. (VHS) Take out Cassette Tapemanually after removing the mechanism

1. Disconnect the AC plug, and remove the Top Panel, Front Panel and the Mechanism by referring to "13 Assembling and Disassembling"

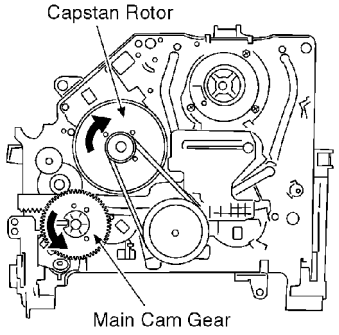
2. Remove the Screw and remove the Loading Motor as shown below.



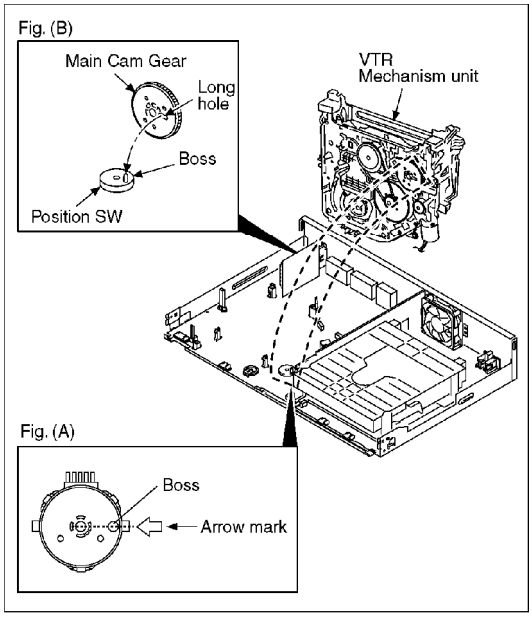
3. Rotate the Main Cam Gear counter-clockwise until just before the unloading will be completed as shown below. .



4. **Rotate the Capstan Motor clockwise to remove the slack tape as shown below.**
5. **Rotate the Main Cam Gear counter-clockwise again to remove the cassette-tape as shown below.**



6. **Attach Loading Motor and tighten the screw.**
7. **Set the Position Switch to EJECT POSITION certainly and attach the mechanism to chassis as shown below.**



10. (DVD) Service Explorer

Confirm "RAM-Drive Last Error" in Service Mode

Execute Service Mode

1. When the power is off, press [VHS to DVD DUBBING], [OPEN/ CLOSE] and [DVD STOP keys simultaneously for 5 seconds. FL Display:

SERV

***After finishing display "(7). Factor of Drive Error occurring", press [0] [2] ~[9] [9] keys of the Remote Controller so that 99 memories can be displayed as maximum.**

2. Press [4] [2] keys of remote controller.

Example of FL Display:

(1) Error Number is displayed for 5 seconds.

NO 01

(2) Time when the error has occurred is displayed for 5 seconds.

4021161915

The error has occurred at 2004(year)/Feb.(month)/16(day)/19(hour):15(minute):26(second)

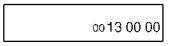
(3) Last Drive Error (1/2) is displayed for 5 seconds.

031000

Error Sense Key
- 00: Bad disc
- 03: Bad disc
- 04: Bad disc or RAM-Drive malfunction

When above error codes are displayed, confirm operation with Panasonic RAM disc or Panasonic DVD-R disc.
*If the operation is OK, judge the error is due to media.
*If the operation is NG and symptom as BLOCK NOISES and so on that are particular symptom of Digital appears, judge the error is due to RAM-Drive or Digital PCB.

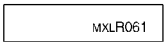
(4) Last Drive Error (2/2) is displayed for 5 seconds.



*This error code is unnecessary for service.

(5) Error occurring Disc type is displayed for 5 seconds.

(6) Disc Maker's ID is displayed for 5 seconds.



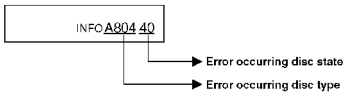
Example of Disc Maker's ID:
DVD-R Disc

No.	FL Display (Disc Maker's ID)	Disc Maker	Country
1	MEI	Panasonic	Japan
2	PVC	Pioneer	Japan
3	MCC	Mitsubishi Chemical Corporation	Japan
4	TDK	TDK	Japan
5	MXL	Maxell	Japan
6	MCI	MITUI CHEMICALS	Japan
7	JVC	Victor JVC	Japan
8	TAIYOYUDEN	Taiyo yuden	Japan
	TYG		
9	GSC	Giga Storage	Taiwan
10	PRODISC	Prodisc	Taiwan
11	PRINCO	PRINCO	Taiwan
12	RITEK	RITEK	Taiwan
13	OPTDISC	OPTDISC	Taiwan
14	LEAD DATA	LEAD DATA	Taiwan
15	CMC	CMC	Taiwan
16	AUVISTAR	AUVISTAR	Taiwan
17	ACER	Acer	Taiwan
18	VIVASTAR	VIVASTAR	Switzerland
19	LGE	LG Electronics	Korea

DVD-RAM Disc

No.	FL Display (Disc Maker's ID)	Disc Maker	Country
1	MEI	Panasonic	
2	MATSUSHITA	Panasonic	Japan
3	MXL	Maxell	Japan
4	PRODISC	Prodisc	Taiwan
5	OPTDISC	OPTDISC	Taiwan
6	CMC	CMC	Taiwan

***Since an display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.**
Please make it reference as an example of a display.
(7) Factor of Drive Error occurring is left displayed



Error Occurring Disc Type

FL Display	Disc Type
00	DVD-ROM/Video
01	Audio-CD
02	2.6GB DVD-RAM
03	4.7GB DVD-RAM
04	DVD-R

Error Occurring Disc State

FL Displays (Hexadecimal)	Description			
	Disc distinction state	Cartridge disc state	Cartridge disc state	Disc size
00	OK	With cartridge	Has not been opened yet.	12 cm
10	OK	With cartridge	Has not been opened yet.	8 cm
20	OK	With cartridge	Has been opened.	12 cm
30	OK	With cartridge	Has been opened.	8 cm
40	OK	Bare	Has not been opened yet.	12 cm
50	OK	Bare	Has not been opened yet.	8 cm
60	OK	Bare	Has been opened.	12 cm
70	OK	Bare	Has been opened.	8 cm
80	NG	With cartridge	Has not been opened yet.	12 cm
90	NG	With cartridge	Has not been opened yet.	8 cm
A0	NG	With cartridge	Has been opened.	12 cm
B0	NG	With cartridge	Has been opened.	8 cm
C0	NG	Bare	Has not been opened yet.	12 cm
D0	NG	Bare	Has not been opened yet.	8 cm
E0	NG	Bare	Has been opened.	12 cm
F0	NG	Bare	Has been opened.	8 cm

11. (DVD) Self-Diagnosis and Special Mode Setting

11.1. (DVD) Self-Diagnosis Functions

Self-Diagnosis Function provides information for errors to service personnel by “Self-Diagnosis Display” when any error has occurred.
U59, H and F** are stored in memory and held.**

Error Code	Diagnosis contents	Description	Monitor Display	FL display
U12	Remote control code error	Display appears when main unit and remote controller codes are not matched.	No display	*CHK REMOTE "*" is remote controller code of the main unit. Display for 5 seconds.
U59	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 70°C. The power is turned off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedfor the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	No display	U59 "U59" is displayed for 30 minutes.
U99	Hang-up	Displayed when communication error has occurred between Main microprocessor and Timer microprocessor.	No display	U99 Displayed is left until the [POWER] key is pressed.
H19	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on. The power is turned off when detecting.	No display	H19 Displayed is left.

Error Code	Diagnosis contents	Description	Monitor Display	FL display
F00	No error information	Initial setting for error code in memory (Error code Initialization is possible with error code initialization and main unit initialization.)	No display	F00 Displayed is left.
F58	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	No display	F58 Displayed is left.
F34	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory. The power is turned off when detecting.	No display	F34 Displayed is left.
UNSUPPORT	Unsupported disc error	*An unsupported format disc was played, although the drive starts normally. *The data format is not supported, although the media type is supported. *Exceptionally incase of the disc is dirty.	“This disc is incompatible.”	UNS UPPORT Display for 5 seconds.

Error Code	Diagnosis contents	Description	Monitor Display	FL display
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	“Cannot read. Please check the disc.”	NO READ
HARD ERR	Drive error	The drive detected a hard error.	“DVD drive error.”	Display for 5 seconds. HAR D ERR
SELF CHECK	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive.	No display	SLF CHECK
Full Program	16 programs are already set.	16 programs are already set.	No display	PROG FULL

11.2. (DVD) Special Modes Setting

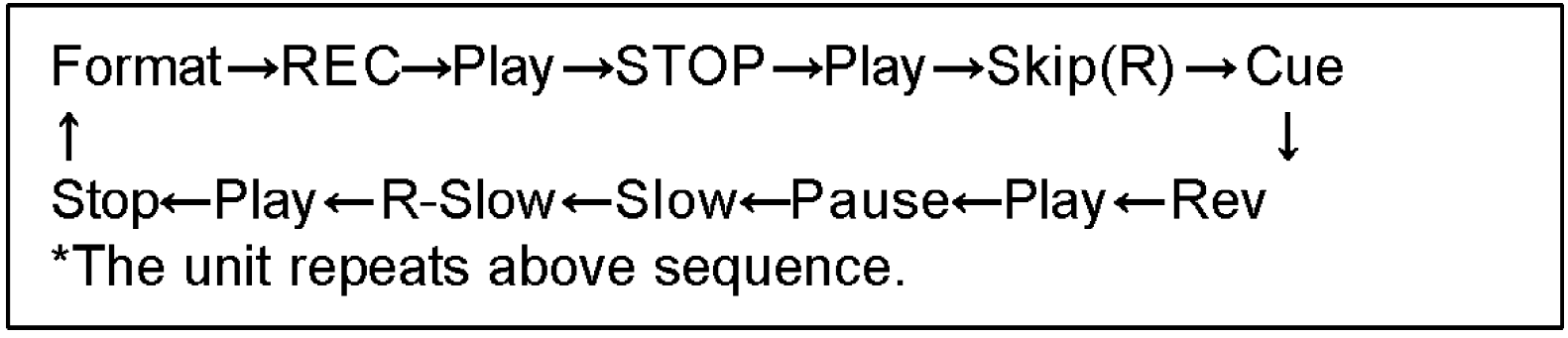
Item		FL display	Key operation
Mode name	Description		Front Key
TEST Mode	*All the main unit's parameters (include tuner) are initialized. Then VHS Microproccesor is initialized to shipping setting too.	L1 TEST	Press [VHS to DVD DUBBING], [DVD to VHS DUBBING] and [OPEN/ CLOSE] keys simultaneously for five seconds when power is off.
Service Mode	Setting every kind of modes for servicing. *Details are described in “11.3. (DVD) Service Mode ”.	SERV	When the power is off, press [VHS to DVD DUBBING], [(DVD) STOP] and [OPEN/CLOSE] keys simultaneously for 5 seconds.
Rating password	The audiovisual level setting password is initialized to “Level 8”.	INIT	While the tray is open, press [SKIP (REV)] and [SKIP (FWD)] simultaneously for five seconds.
Forced disc eject	Removing a disc that cannot be ejected. The tray will open and unit will shift to P-off mode. *When Timer REC is ON, execute " Forced disc eject " after releasing Timer REC.	The display before execution leaves. *********	When the power is off, press [(DVD) STOP] and [(DVD) CH UP] keys simultaneously for five seconds.

Item		FL display	Key operation
Mode name	Description		Front Key
Forced power-off	When the power button is not effective while power is ON, turn off the power forcibly.*When Timer REC is ON, execute “Forced Power-off” after releasing Timer REC. Action: Thetray will open, and the power will turn off.	Display in P-off mode.	Press [Power] key over than 10 seconds.
Aging	Perform sequence of modes as * Aging Description shown below continually.	Display following the then mode.	When the power is ON, press [(DVD) CH DOWN], [VHS to DVD DUBBING] and [OPEN / CLOSE] simultaneously for over five seconds and less than 10 seconds. *The [REC MODE] should be set to EPor LP. *When the unit has hung-up because of pressing keys for over 10 seconds, once turn off the power, and re-execute this command. “When releasing Aging mode, press [POWER] key.

Item		FL display	Key operation
Mode name	**Description**		**Front Key**
Demonstration lock/unlock	**Ejection of the disc is prohibited. The lock setting is effective until unlocking the tray and not released by “Main unit initialization” of service mode.**	***When lock the tray.** LOCK **“LOCK” is displayed for 3 seconds.**	**When the power is on, press [(DVD) STOP] and [POWER] keys simultaneously for five seconds.**
		***When unlock the tray.** UNLOCK **“UNLOCK” is displayed for 3 seconds.**	**When the power is on, press [(DVD) STOP] and [POWER] keys simultaneously for five seconds.**
		***When pressing OPEN/ CLOSE key while the tray is locked.** LOCK **Display “LOCK” for 3 seconds.**	**Press [OPEN/CLOSE] key while the tray is locked.**
ATP Initialization	**ATP setting is initialized, and the unit turns off automatically.**	**It is same with display in stop mode.** *********	**When the power is on (E-E mode), press [(DVD) CH UP] and [(DVD) CH DOWN] simultaneously for five seconds.**

Item		FL display	Key operation
Mode name	Description		Front Key
Progressive initialization	The progressive setting is initialized to Interlace.	The display before execution leaves. *********	When the power is on (E-E mode), press [(DVD) STOP] and [VHS to DVD DUBBING] simultaneously for five seconds.

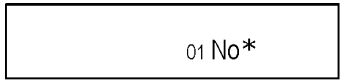
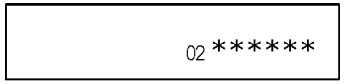
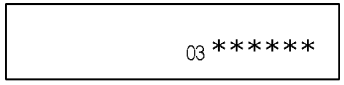
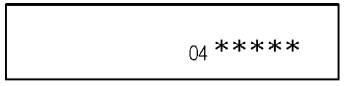
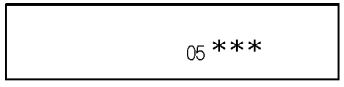
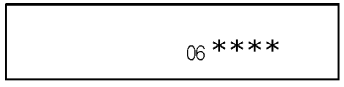
Aging Contents (Example):



11.3. (DVD) Service Modes

Service mode setting: While the power is off, press [VHS to DVD DUBBING], [OPEN/CLOSE] and [(DVD) STOP] keys simultaneously for five seconds.

Item		FL display	Key operation
Mode name	**Description**		**(Remote controller key)**
Release Items	**Item of Service Mode executing is cancelled.**	SERV	**Press [0] [0] or [Return] in service mode.**
Error Code Display	**Last Error Code of U59/H/F held by Timer is displayed on FL. *Details are described in “11.1. (DVD) Self-Diagnosis Functions”.**	♣□□ *♣ shows U/H/F. □□ shows number.	**Press [0] [1] in service mode**

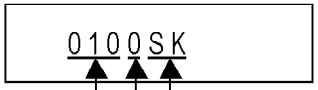
Item		FL display	Key operation
Mode name	Description		(Remote controller key)
ROM Version Display	(01)Region code, (02)MAIN firm version, (03)TIMER firm version, (04)DRIVE firmware version, (05)ROM collection version, (06)VHS microprocessor version are displayed on FL for fiveseconds per each version in order, but (07)VHS ROM collection version will be left displayed.	(01)Region code  (02)MAIN firm version  (03)TIMERfirm version  (04)DRIVE firmware version  (05)ROM collection version  (06)VHS microprocessor version 	Press [0] [2] in service mode

		(07)VHS ROM collection version 07 ** * are version displays. **Descriptions for Version Display of Main Microprocessor are shown below.**	

Item		FL display	Key operation
Mode name	Description		(Remote controller key)

Version Display of Main Microprocessor

Example of FL Display



Version

OEM Code

0: Matsushita Electric
1: Hitachi
2: Samsung
3: DENON

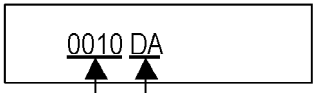
Destination Code and Model Code

For Japan	For North America/Canada /Latin America
SK: DMR-E55	DK: DMR-E55P/PC/PL/PX
SL: DMR-E85H	DP: DMR-E65P
SR: DMR-E95H	DL: DMR-E85HP/HPC
SS: DMR-E300H	DR: DMR-E95HP
SU: DMR-E500H	DU: DMR-E500HP/HPC
SQ: DMR-E75V	DQ DMR-E75VP
SV: DMR-E150V	

For Europe/Asia/
EK: DMR-E55EG/EB/EBL/EP/EE/GCS/GN/GK/GC, DMR-E53EG
EP: DMR-E65EG/EB/EP/EE/GCS/GN/GK/GC
EL: DMR-E85HEG/HEB/HEP/HEE/HGCS/HGN
ER: DMR-E95HEG/HEB
EU: DMR-E500HEG/HEB/HGCS/HGN/HGK
EQ: DMR-E75VEG/VEB

Version Display of Timer Microprocessor

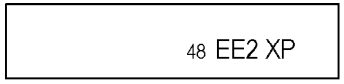
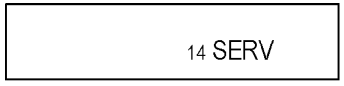
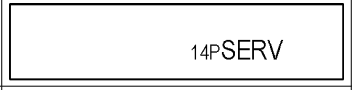
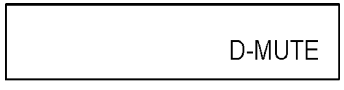
Example of FL Display

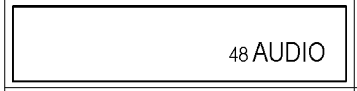
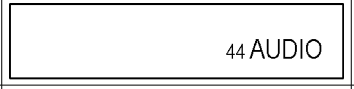


Version: 0.01

Bottom 2 figures of Part Number of Timer Microprocessor: M306H3RDA

Item		FL display	Key operation
Mode name	**Description**		**(Remote controller key)**
White Picture Output	**White picture is output as component Output from AV Decoder.** ***White picture** **(Saturation rate : 100%)** ***It is enable to switch Interlace/ Progressive by "I/Pswitch: [1] [4]"**	***Initial mode is "Interlace".** WHITE	**Press [1] [1] in service mode.**
		Switch Interlace/ Progressive P WHTIE	**Press [1] [4] in White Picture Output mode.** ***I/P are switched alternately.**
Magenta Picture Output	**Magenta picture is output with Component Output from AV Decoder.** ***Magenta picture** **(Saturation rate: 100%)** ***It is enable to switch Interlace/ Progressive by "I/Pswitch: [1] [4]"**	***Initial mode is "Interlace".** MAGE	**Press [1] [2] in service mode.**
		Switch Interlace/ Progressive P MAGE	**Press [1] [4] in Magenta Picture Output mode.** ***I/P are switched alternately.**

Item		FL display	Key operation
Mode name	**Description**		**(Remote controller key)**
RTSC Return in XP (A & V)	**L1 input signal is encoded (XP), decoded (XP) and output decoded signal to external without DISC recording and DISC playback.**	**Initial mode: EE2/ Interlace / XP/ Audio 48kHz** 	**Press [1] [3] in service mode.**
		Switch Interlace/ Progressive 	**Press [1] [4] in RTSC Return XP mode.** ***I/P are switched alternately.**
		Audio 44.1 kHz/ 48 kHz Switch 	**Press [2] [4] in RTSC Return XP mode.** ***48 kHz / 44.1 kHz are switched alternately.**
I/P Switch	**Switch Interlace and Progressive in EE mode.** ***Initial setting is "Interlace".** ***This command is effective during executing "White Picture Output", "MagentaPicture Output" and "RTSC Return in XP (A & V)" modes.**	**Initial mode is Interlace**  **Switch Interlace/ Progressive** 	**Press [1] [4] in I/P Switch mode.** ***I/P are switched alternately.**
Audio Mute (XTMUTE)	**Check whether mute is applied normally by the timer microprocessor.**		**Press [2] [1] in service mode.**
Audio Mute (XDMUTE)	**Check whether mute is applied normally by the Digital P.C.B. (GLUE IC).**		**Press [2] [2] in service mode.**

Item		FL display	Key operation
Mode name	Description		(Remote controller key)
Audio Pattern Output	The audio pattern stored in the internal memory is output (Lch: 1kHz/-18dB) (Rch: 400Hz/-18dB) *Audio sound clock switching operation of DAC can beconfirmed by sub command [2] [4].	Initial mode (Audio 48kHz) 	Press [2] [3] in service mode.
		Audio 44.1kHz/48kHz switching 	Press [2] [4] in Audio Pattern Output mode. *48 kHz / 44.1 kHz are switched alternately.
Laser Used Time Indiction	Check laser used time (hours) of drive.	 ● (*****) is the used time display in hour. ● Laser used time ofDVD/ CD in Playback/ Recording mode is counted.	Press [4] [1] in service mode.
Delete the Laser Used Time	Laser used time stored in the memory of the unit is deleted.		Press [9] [5] in service mode.

Item		FL display	Key operation
Mode name	Description		(Remote controller key)
RAM Drive Last Error	RAM Drive error code display. *For details about the drive error code, refer to the Service Manual for the specific RAM Drive. *Details are described in “10. (DVD)Service Explorer ”.	1. Error Number is displayed for 5 seconds. NO** 2. Time when the error has occurred is displayed for 5 seconds. YMMDDhhmm Y: Year MM: Month DD: Day hh: Hour mm: Minute 3. Last Drive Error (1/2) is displayed for 5 seconds. ****** 4. Last Drive Error (2/2) is displayed for 5 seconds. ** ****** 5. Error occurring Disc type is displayed for 5	Press [4] [2] in service mode. Then press [0] [1] ~ [9] [9], the past 99 errors are displayed.

		type is displayed for 5 seconds. ****** **6. Disc Maker ID is displayed for 5 seconds.** ** ****** **7. Factor of Drive Error occurring is left displayed** IFO******	**Incase that the supplier cannot be identified, display is black out.**

Item		FL display	Key operation
Mode name	Description		(Remote controller key)
Delete the Last Drive Error	Delete the Last Drive Error information stored on the DVD RAM-Drive.	CLRDRIVE	Press [9] [6] in service mode.
Turn on all FL/ LEDs	All segments of FL and all LEDs are turned on.	All segments are turned on.	Press [5] [1] in service mode.
S1 signal output	Forcibly superimpose the S1 signal (approx. 4.5V DC) on the EE chroma signal, and check the output on the S terminal.	S1 OUTPUT	Press [5] [2] in service mode.
S2 signal output	Forcibly superimpose the S2 signal (approx. 2V DC) on the EE chroma signal, and check the output on the S terminal.	S2OUTPUT	Press [5] [3] in service mode.
Front connection inspection	Press all front keys and check the connection between Main P.C.B. and Front P.C.B.	0r ** 0r ** (1) (2) (1) (2) (1) Each time a key is pressed, segment turned on increases one by one. (2) Total umber of keys that have been pressed.	Press [5] [4] in service mode.
Production Date Display	Display the date when the unit was produced.	YYYYMMDD YYY: Year MM: Month DD: Day	Press [6] [1] in service mode.

Item		FL display	Key operation
Mode name	**Description**		**(Remote controller key)**
Display the Error History	**Display the Error History stored on the unit.**	**Display reason of error for 5 seconds.** *** **Display the time when the error has occurred for 5 seconds..** DDHHMM **DD: Day** **HH: Hour** **MM: Minute** **Display the accumlated working time to occurring of the error for 5 seconds..** ****** **(Indicating unit: Second)**	**Press [6] [5] in service mode.** **Then press [0] [1] ~ [1] [9], the past 19 error histories are displayed.**
Delete the Error History	**Delete Error History information stored on the unit.**	CLR FTREC	**Press [9] [7] in service mode.**

Item		FL display	Key operation
Mode name	Description		(Remote controller key)
Tray OPEN/ CLOSE Test	The RAM drive tray is opened and closed repeatedly.	********* “*” is number of open/ close cycle times.	Press [9] [1] in service mode *When releasing this mode, press the [POWER] button on Front Panel more than 10 seconds.
Error code initialization	Initialization of the last error code held by timer (Write in F00)	CLR E-CODE	Press [9] [8] in service mode.
Initialize Service	Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting.	CLR SERV	Press [9] [9] in service mode.
Finishing service mode	Release Service Mode.	Display in STOP (E-E) mode. *********	Press power button on the front panel in service mode.

12. (VHS) Self-Diagnosis and Special Mode Setting

12.1. (VHS) Self-Diagnosis Functions

This model has a self-diagnosis and display function. If the VHS section detects trouble during installation or during use, one of the following Error Codes will automatically appear in the display on VHS side. Error Codes are displayed in the formof a single English letter followed by two numbers, as for example "H01".

Note:

1. The indication "U" is displayed on the FIP while power remains on.

2. The indication "H" or "F" is displayed on the FIP, and the power is automatically turned off. When

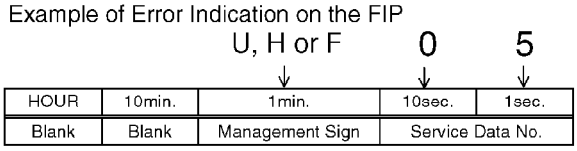
12.1. (VHS) Self-Diagnosis Functions

This model has a self-diagnosis and display function. If the VHS section detects trouble during installation or during use, one of the following Error Codes will automatically appear in the display on VHS side. Error Codes are displayed in the formof a single English letter followed by two numbers, as for example "H01".

Note:

1. **The indication "U" is displayed on the FIP while power remains on.**
2. **The indication "H" or "F" is displayed on the FIP, and the power is automatically turned off. When the power is turned on again, the Error indication code will disappear and the unit will return to normal display mode (either clock or counteris displayed).**
3. **This Error indication code will be stored in the microprocessor even after the AC plug being disconnected.**
   The two-digit number portion of the stored Error indication code can be re-displayed in "second" display portion (the last 2 digits of the FIP) by placing the unit is Service Mode Number 2 When turning on Service Data Display as for example "01"or "02" etc. If a second error occurs, the most recent error will be displayed and stored until 5 self-diagnosis histories in maximum.
4. **To erase the stored Error Code data, Press FF and EJECT buttons on VCR simultaneously for over 5 seconds in Service Mode 2.**

Example of Error Indication on the FIP



HOUR	10min.	1min.	10sec.	1sec.
Blank	Blank	Management Sign	Service Data No.	

Division of Management

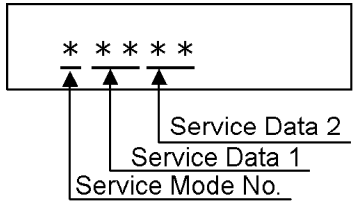
Management Sign	Management Division
U	User can deal with.
H	Shop can deal with.
F	It should be dealt with in service shop.

Error Number at a glance

Memory No. (Error No.)	Reason	Automatic display	Memory
H01	The cylinder could not be started. (Error of the cylinder or the cylinder driver.)	Yes	Yes
H02	The CAP FG could not be detected.	Yes	Yes
F03	Mechanism lock during without the unloading and the cassette-up.	Yes	Yes
F04	Mechanism lock during unloading	Yes	Yes
F05	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	No	Yes
F06	Mechanism lock during the Cassette-up.	Yes	Yes
H07	The recording circuit can not be operated in REC mode.	Yes	Yes
H08	The recording circuit is operated in except for REC mode.	Yes	Yes
U11	Cylinder clogs during the PLAY mode.	Yes	Yes
F15	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	No	Yes
H16	Detection of the Cylinder lock during the constant rotation	No	Yes
H17	Detection of S-reel lock during the constant tape running	Yes	Yes
H18	Detection of T-reel lock during the constant tape running	Yes	Yes
F20	NG1 in the PG Shifter Automatic Adjustment (The cylinder rotation is unstable during the automatic adjustment.)	Yes	Yes
F21	NG2 in the PG Shifter Automatic Adjustment (The vertical sync signal is lacked while over 5 seconds on the alignment tape.)	Yes	Yes

Memory No. (Error No.)	Reason	Automatic display	Memory
F22	NG3 in the PG Shifter Automatic Adjustment (The installing position of Heads to the cylinder is our of specification.)	Yes	Yes
F23	NG4 in the PG Shifter Automatic Adjustment (The servo is not locked to the cylinder for more than 10 sec.)	Yes	Yes
H80	An exceptional ejection depends on a Error	No	Yes

12.2. (VHS) Special Modes Setting

Item		FL display	Key operation
Mode name	Description		Front Key
Tracking Center	Tape Tracking is adjusted to center FIX position.	No display.	During PLAYBACK, press [(VHS) CH UP] and [(VHS) CH DOWN] keys simultaneously.
VHS Service Mode	In order to make service easy, a part of inside information of a microprocessor is displayed on FIP. *Details are described in "12.3. (VHS) Service Mode" .		Press [FF], and [EJECT] keys simultaneously for three seconds when power is off.

Item		FL display	Key operation
Mode name	Description		Front Key
Releasing Timer Program	Releasing Continuation Timer Program	No display.	While in Timer REC mode, press [(VHS) STOP] key for 3 seconds.
Eject	Ejecting Cassette Tape	No display.	While in other than Timer REC mode, press [(VHS) STOP] key for 3 seconds or press [STOP] key of the Remote Controller for 3 seconds in VHS mode.

12.3. (VHS) Service Modes

12.3.1. (VHS) Service Mode and Service Data at a glance

Service Number	Contents	Contents of Indication on minute	Contents of Indication on second	Remarks
0	Indication for the inner data of IC6001	VHS mode (Real time)	Process number (Real time)	
		VCR mode (OPM)	Management number of the processing during mechanism shifting	

Service Number	Contents	Contents of Indication on minute	Contents of Indication on second	Remarks
1	Indication for the inner data of IC6001	Starting / finishing edges detecting data (Real time)	Data of receiving key (Real time)	
		00: Both starting / finishing edges have not been 01: Starting edge is detecting now 02: Finishing edge is detecting now 03: Both starting / finishing edges are detectingnow	Indicate the receiving code when the key of VCR or remote controller being operated.	

Service Number	Contents	Contents of Indication on minute	Contents of Indication on second	Remarks
2	Indication for the inner data of IC6001	Mechanism position (Real time) 0L: EJECT position 02: DOWN position 03: RREW position 04: LOAD position 05: REV position 06: PLAY position 07:POFF position 08: STOP_R position 09: STOP_F position - : FF/REW position - : Intermediate between each positions	Ordering for the Motors (Real time) 0*, 2*: CYL off, CAPoff 1*: CYL off, CAP on (fwd) 3*:CYL off, CAP on (rev) 8*, A*: CYL on, CAPoff 9*: CYL on, CAP on (fwd) B*:CYL on, CAP on (rev) *0: Motor off *1: Loading *2: Unloading *3: Break (Load + Unload)	There are next conditions in this mode for enable the mechanism operations without a cassette tape. ● The starting / finishing edges are not detected. ● The reel lockis not detected ● The tape and the positions are not detected. , And so on. Press the EJET key for over 3 seconds in this mode, and then the VCR is shifted into the special modes, such as PG Adjustment, Model Code Setting,and so on. The orders for the motors are as follows. Bit 7: CYL ON/OFF Bit 6: ---------- Bit 5: CAP FWD/REV Bit 4: CAP ON/OFF Bit 3: ---------- Bit2: ---------- Bit 1: UNLOADING(H) Bit 0: LOADING(H)

Service Number	Contents	Contents of Indication on minute	Contents of Indication on second	Remarks
3	Self-diagnosis history (1st)	Error number of history 1	Supplementary data 1 and 2 of history 1.	In the Self-Diagnosis Memory, next 3 BYTE is memorized for an Error. 1 BYTE: Its Error number 2 BYTE: Its supplementary data
4	Self-diagnosis history (2nd)	Error number of history 2	Supplementary data 1 and 2 of history 2.	
5	Self-diagnosis history (3rd)	Error number of history 3	Supplementary data 1 and 2 of history 3.	In these modes, the supplementary data 3 and 4 instead of the Error number and supplementary data 1 and 2 are indicated only while pressing STOP key.
6	Indication for the inner data of IC6001	Real time servo data (4 digits) (Real time)		
		Higher rank 1 BYTE of SERVO data	Lower rank 1 BYTE of SERVO data	

Service Number	Contents	Contents of Indication on minute	Contents of Indication on second	Remarks
7	Manual mechanism operation	Real time mechanism position	Real time ordering for the Motors	Press the STOP key, and then the cassette tape is unloaded.
		0L: EJECT position 02: DOWN position 03: RREW position 04: LOAD position 05: REV position 06: PLAY position 07: POFF position 08: STOP_R position 09: STOP_F position -: FF/REW position - : Intermediate between each positions	0*, 2*: CYL off, CAP off 1*:CYL off, CAP on (fwd) 8*, A*: CYL on, CAPoff 9*: CYL on, CAP on (fwd) B*:CYL on, CAP on (rev) *0: Motor off *1: Loading *2: Unloading *3: Break (Load + Unload)	

12.3.2. Example of FIP

4	0	3	1	2
HOUR	10min.	1min.	10sec.	1sec.
Service No.	Service Data 1		Service Data 2	

12.4. (VHS) Self-Diagnosis History Memory Function

12.4.1. (VHS) Condition for memorizing of the self-diagnosis history

1. The self-diagnosis result and the supplementary data are the condition memorized just as an

Error is detected.

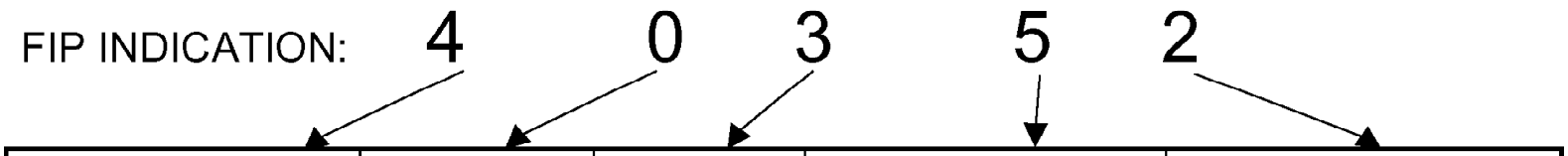
2. There are the histories from number 1 to number 3.
3. The latest Error is memorized on history number 1,and then the old histories are shifted to the history number 2, 3.
4. Put out data from the memory number 3 by the shift is deleted.
5. If the latest Error is same with the history number 1 (2nd-latest), it is not memorized. (The same Error number is not memorized in succession)

12.4.2. (VHS) Condition for clearing the self-diagnosis history

1. A case of that press the FF key and the EJECT key simultaneously over 5 seconds.
2. A case of that the factory jumper (TW1004) is shorted.

12.4.3. (VHS) Indication of the self-diagnosis history.

1. The self-diagnosis histories and its supplementary data could be indicated on the FIP with Service mode of
2. The procedure of setting the service mode and the format if the indication are same as usual.



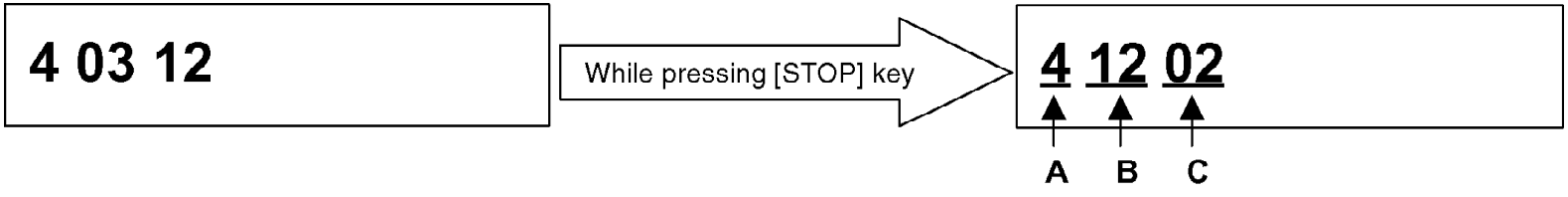
Hour of one-digit	Minute of two-digit	Minute of one-digit	Second of two-digit	Second of one-digit
Service mode number	Error number		Supplementary Data	
3	Number of history 1 (The latest)		Supplementary data 1 of history 1	Supplementary data 2 of history 1
4	Number of history 2 (2nd latest)		Supplementary data 1 of history 2	Supplementary data 2 of history 2
5	Number of history 3 (3rd latest)		Supplementary data 1 of history 3	Supplementary data 2 of history 3

Both the Error numbers and its supplementary data of history 1, 2and 3 are indicated by selecting the Service mode 3, 4 and 5 as shown above.
In case of that any Error has not been memorized, the Error number and its supplementary data is indicated as " - ".

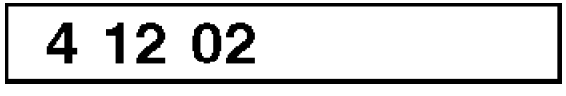
12.4.4. (VHS) Display of Supplementary Data 3 and 4

During displaying the Self-Diagnosis History, press [STOP] key on front panel to change the display.

***Example of Display**



A: Service Mode Number.
B: Supplementary Data 3...Mechanism process shifting Number.
C: Supplementary Data 4...LM(Loading Motor information)

***Display of** 

means that " Loading Motor turns ON when [EJECT] button was pressed, but an error has occurred while mechanism was between REV position and LOAD position.

<Supplementary Data 3>

[EJECT]	[FF]	[REW]
10: PLAY → passing REV 11: passing REV 12: passing REV Å~LOAD (Capstan STOP) 13: LOAD → DOWN 14: DOWN → EJECT 15: EJECT completion	U0: PLAY → STOP F U1: STOP F → FF U2: FF starting up	A0: PLAY → STOP F A1: STOP → REW A2: REW starting up
[PLAY]	[REC]	[STILL]
20: Cylinder starting up, Phase drawing	30: Cylinder starting up, Phase drawing	40:Turning forward
21: Audio muting, VV selection	31: REC signal output	41:Speed is 0, Capstan is OFF
[P.ON]	[STILL → PLAY]	[CUE]
-- Process of turning on power	48: Tape sending	49: x2 speed sending, Turning point of Calculating remains
[P.OFF]	[CUE → PLAY]	[REV]
70: PLAY → P.OFF	4A: Finishing edge Checking, Tape sending	80: PLAY → P.OFF
	4-: PLAY Checking, Tape sending	81: Rewinding
		P.OFF → REV

<Supplementary Data 4> (LM Information)
Result of request of driving Loading Motor.

Display	Description
1	There was no change of mechanism position. (Loading Motor was OFF)
2	There was some change of mechanism position. (Loading Motor was ON)

12.5. (VHS) Description of Self Diagnosis Memory

In this Self-Diagnosis Function, in case error has occurred continuously, maximum of the newest 3 error data are memorized.
And in order to analyze cause of error, the error number and the supplementary data of mode, mechanism position and so on are memorized.

12.5.1. (VHS) Error Number and Supplementary Data

The Supplementary Data as shown below are memorized to each error number.

Error No.	Reason	Supplementary Data			
		Data 1	Data 2	Data 3	Data 4
01	The cylinder could not be started. (Error of the cylinder or the cylinder driver.)	VHS mode	-	-	-
02	The CAP FG could not be detected.	VHS mode	-	Process No.	Number of FG
03	Mechanism lock during without the unloading and the cassette-up.	VHS mode	Standby position	Process No.	LM information
04	Mechanism lock during unloading	VHS mode	-	Process No.	LM information

Error No.	Reason	Supplementary Data			
		Data 1	Data 2	Data 3	Data 4
05	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	VHS mode	Tape position	Process No.	LM information
06	Mechanism lock during the Cassette-up.	VHS mode	Standby position	Process No.	LM information
07	The recording circuit can not be operated in REC mode.	VHS mode	-	Process No.	-
08	The recording circuit is operated in except for REC mode.	VHS mode	-	Process No.	-
11	Cylinder clogs during the PLAY mode.	VHS mode	-	Process No.	-
15	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	VHS mode	Value of S-Reel Pulse counted	Process No.	-
16	Detection of the Cylinder lock during the constant rotation	VHS mode	Tape position	Process No.	-
17	Detection of S-reel lock during the constant tape running	VHS mode	Tape position	Process No.	Number of FG
18	Detection of T-reel lock during the constant tape running	VHS mode	Tape position	Process No.	Number of FG
20	NG1 in the PG Shifter Automatic Adjustment (The cylinder rotation is unstable during the automatic adjustment.)	VHS mode	-	Process No.	-

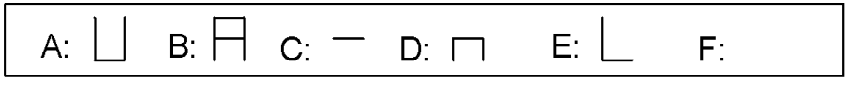
Error No.	Reason	Supplementary Data			
		Data 1	Data 2	Data 3	Data 4
21	NG2 in the PG Shifter Automatic Adjustment (The vertical sync signal is lacked while over 5 seconds on the alignment tape.)	VHS mode	-	Process No.	-
22	NG3 in the PG Shifter Automatic Adjustment (The installing position of Heads to the cylinder is our of specification.)	VHS mode	-	Process No.	-
23	NG4 in the PG Shifter Automatic Adjustment (The servo is not locked to the cylinder for more than 10 sec.)	VHS mode	-	Process No.	-
80	An exceptional ejection depends on a Error	VHS mode	Refer to *Note 3	Process No.	-

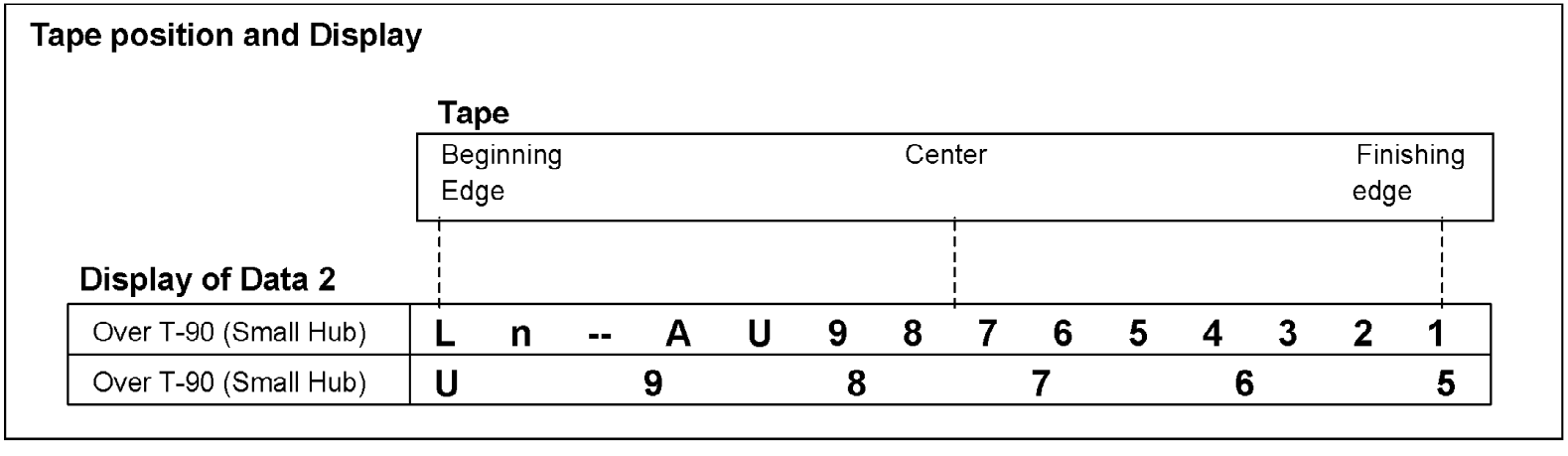
Note 1: Details of "VCR mode" of the Supplementary Data 1 (These values are hexadecimal indication)
0: STOP, 1: EJECT, 2: REW, 3: FF, 4:REV, 5: CUE, 6: SLOW, 7: POWEROFF, 8: PLAY, 9: STIL,
A: REC, B: REC PAUSE, C: ADUB, D: ADUB PAUSE, E: INSERT, F: INSERT PAUSE

Note 2: Explanation of "Tape position" of the Supplementary Data
The Tape position Data is the area data of S-reel that is used for judgment of reducing speed in the Main microprocessor IC6001, and as the tape position is moved from the starting edge to the finishing edge, the value becomes smaller.
The Tape Data does not become "0" even if the tape reaches the finishing edge as the hub remains, and the tape position values are different between the large hub and the small hub as the each diameters are different from each other.

Tape Type	The aim of Tape position between the starting edge and the finishing edge
60 min. or less type (Large Hub)	The Tape position is divided into 6 stages between the Tape beginning edge: "A " and the Tape end edge: "5".
90 min. or over type (Small Hub)	The Tape position is divided into 14 stages between the Tape beginning edge: "E " and the Tape end edge: "1".

- "A" and "E" is hexadecimal. "A" =10 (Decimal), "E" =14 (Decimal).
- Hexadecimal indication from "A" to "E" are shown below.





Note 3: Supplementary Data 2 (Reason of Ejection)

Supplementary Data 2	Reason
1	S-reel pulse is less than 3 when the loading has been completed. (Miss catching the tape)
2	Pulse Timer over during the short rewind at the DOWN position. (Error of S-photo sensor system, S-reel system, Capstan system)
3	Mechanism lock from the DOWN position to the LOAD position during the loading.
4	Both ends have been detected at the LOAD position when the loading is started.

13. Assembling and Disassembling

13.1. Disassembly Flow Chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart below.

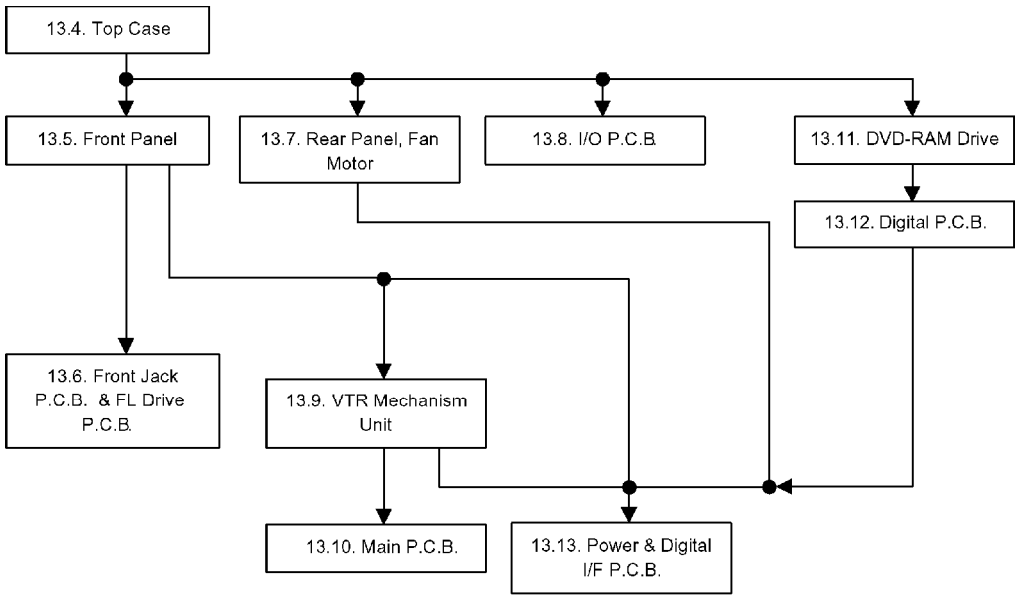
Note 3: Supplementary Data 2 (Reason of Ejection)

Supplementary Data 2	Reason
1	S-reel pulse is less than 3 when the loading has been completed. (Miss catching the tape)
2	Pulse Timer over during the short rewind at the DOWN position. (Error of S-photo sensor system, S-reel system, Capstan system)
3	Mechanism lock from the DOWN position to the LOAD position during loading.
4	Both ends have been detected at the LOAD position when the loading started.

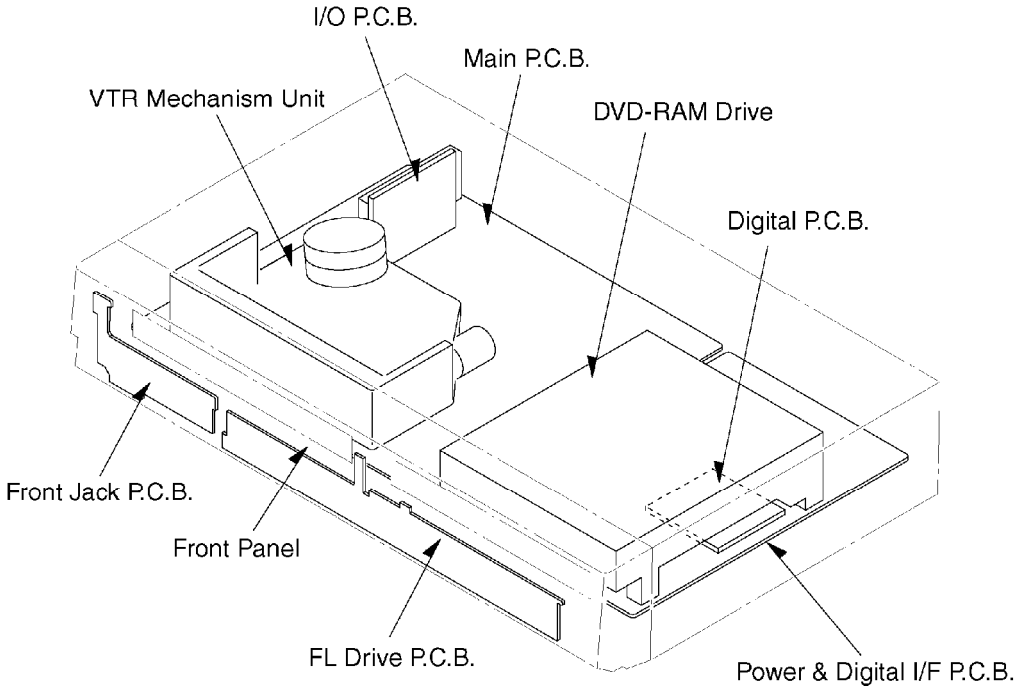
13. Assembling and Disassembling

13.1. Disassembly Flow Chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart below.



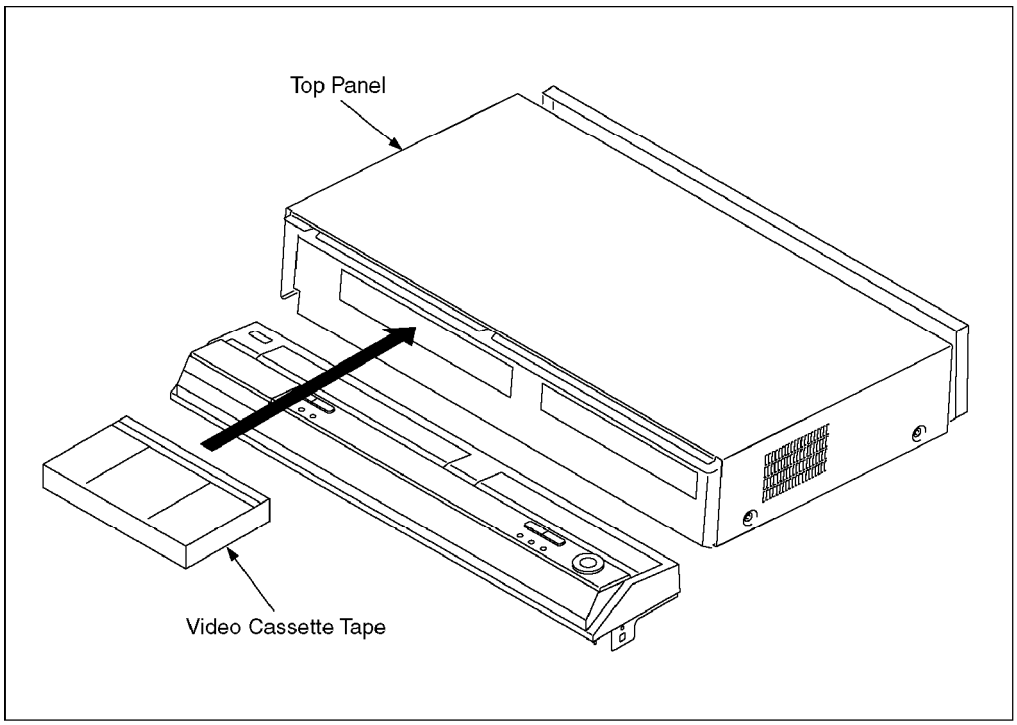
13.2. P.C.B. Positions



13.3. Cation with inserting cassette tape when disassembling the unit

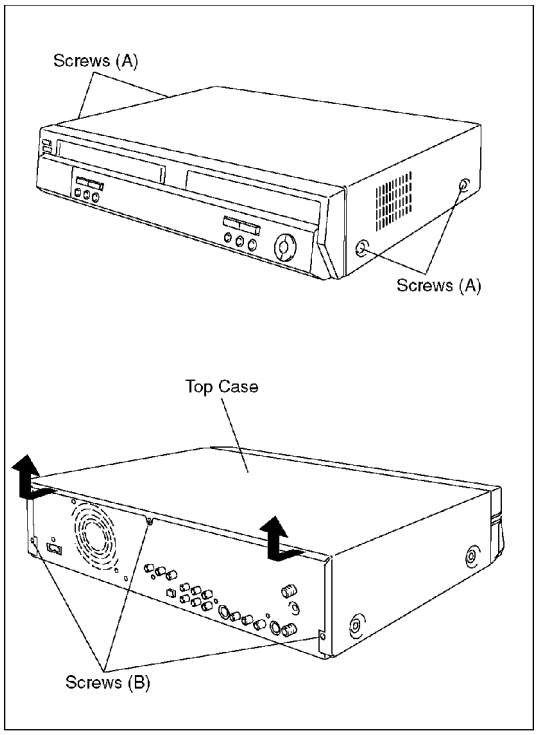
Note1:
For description of the disassembling procedure, see the section 13.4.

Note2:
Video Cassette might not enter when a strong lighting is applied to VHS Mechanism when Video Cassette is inserted. Please weaken the lighting or cover with the top panel etc.



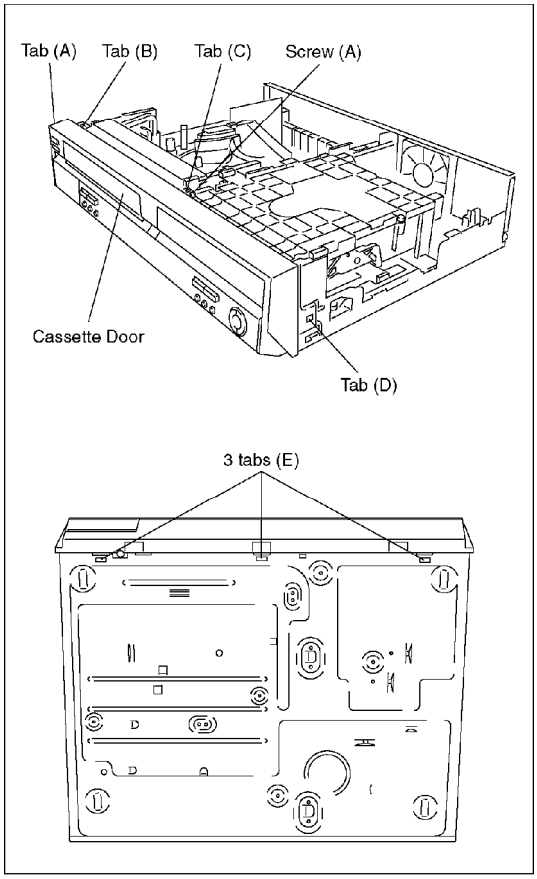
13.4. Top Case

1. Remove the 4 screws (A) and 3 screws (B).
2. Slide the Top Case for rear direction slightly, and open the both ends at rear side of the Top Case a little and lift up the Top Case for the direction of the arrows.

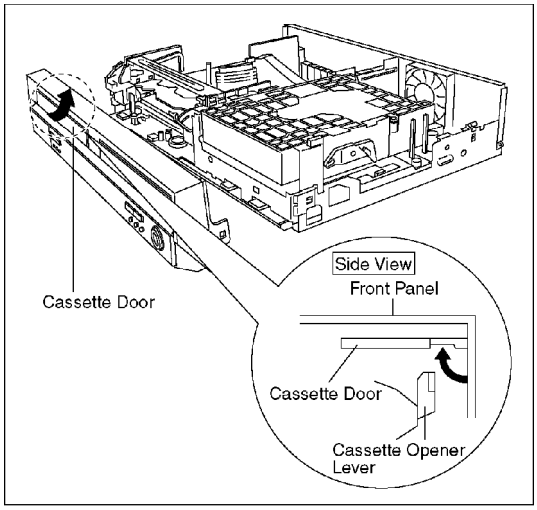


13.5. Front Panel

1. Remove one screw (A).
2. Unlock tab (A) and tab (B) simultaneously.
3. Unlock tab (C) and tab (D) simultaneously.
4. Unlock 3 tabs (B) respectively, and pull out Front Panel with connector slightly.



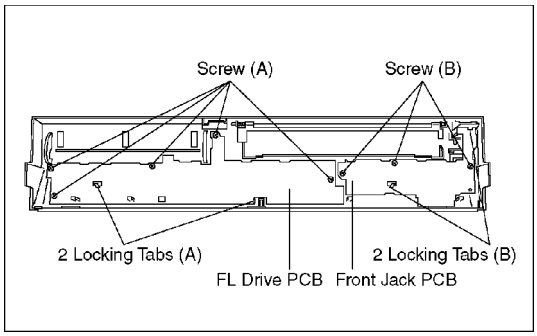
Note:
When attaching Front Panel, in order to hook Cassette Door Opener Lever to Cassette Door, push up cassette door in the direction of arrow and insert a front panel.



13.6. Front Jack P.C.B. & FL Drive P.C.B.

1. Remove one 5 screws (A), and unlock 2 Locking Tabs (A) to remove FL Drive P.C.B.

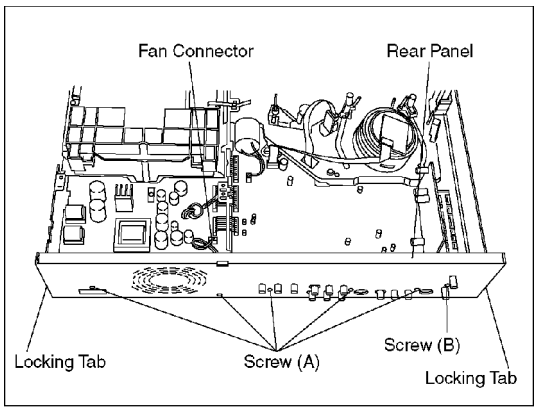
2. Remove one 3 screws (B), and unlock 2 Locking Tabs (B) to remove Front Jack P.C.B.



13.7. Rear Panel & Fan Motor

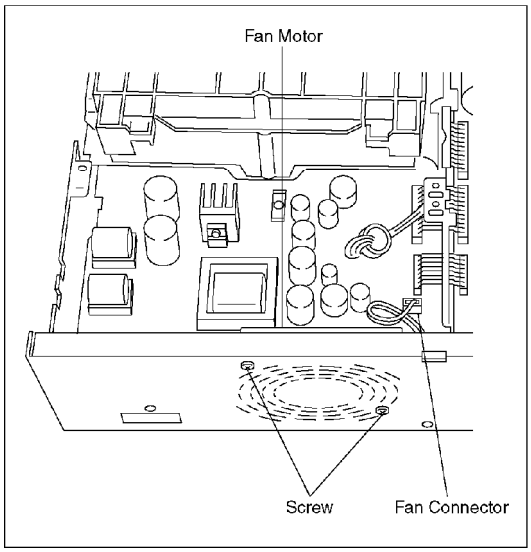
1. Remove 5 Screws (A) and Screw (B) and Fan Connector.

2. Unlock 2 Locking Tabs to remove Rear Panel with Fan Motor.



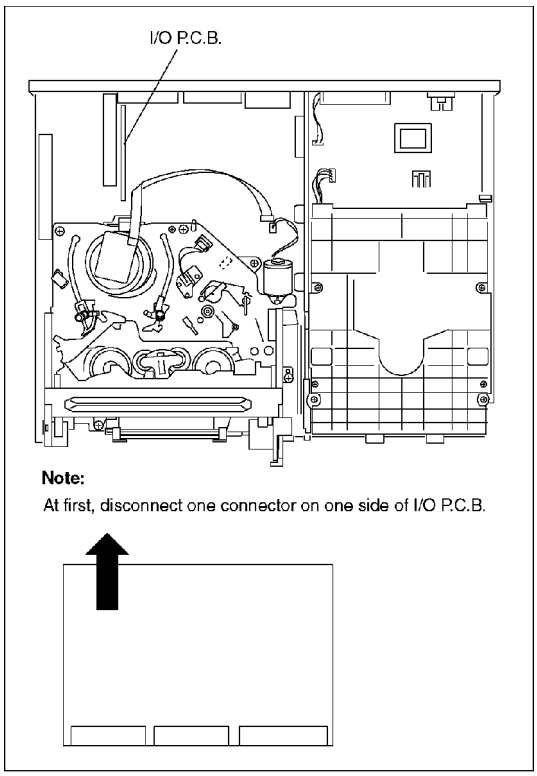
13.7.1. Only Fan Motor

1. Remove 2 Screws and Fan Connector to remove Fan Motor.



13.8. I/O P.C.B.

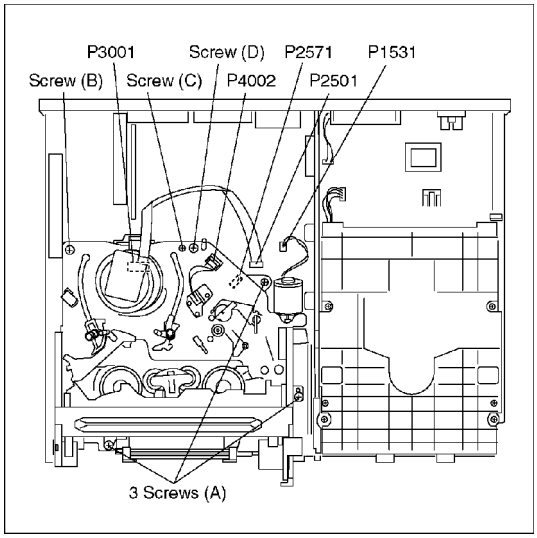
At first, disconnect one connector on one side of I/O P.C.B, and pull out the I/O P.C.B.



13.9. VTR Mechanism Unit

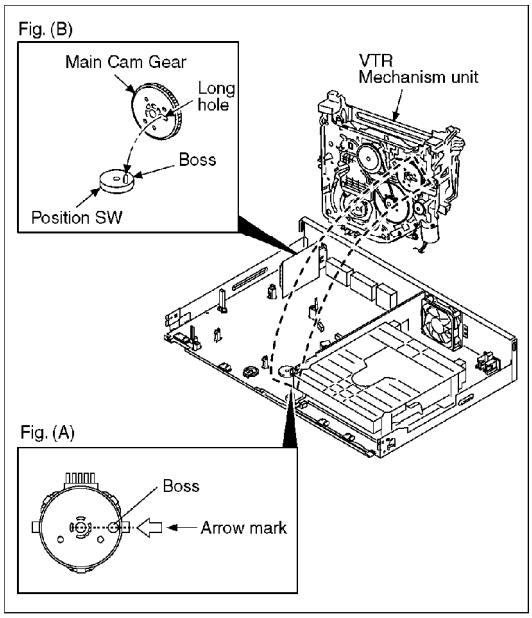
1. **Disconnect 3 Connectors (P1531, P2501 and P4002).**
2. **Remove 3 Black Screws (A), Screw (B) , Screw (C) and Screw D).**
3. **Lift up VTR Mechanism Unit perpendicularly so to disconnect Connectors (P2571 and P3001).**

Note:
When you lift up VTR Mechanism Unit, because connections of P2501 and P3001 are tight, pay attention to that.



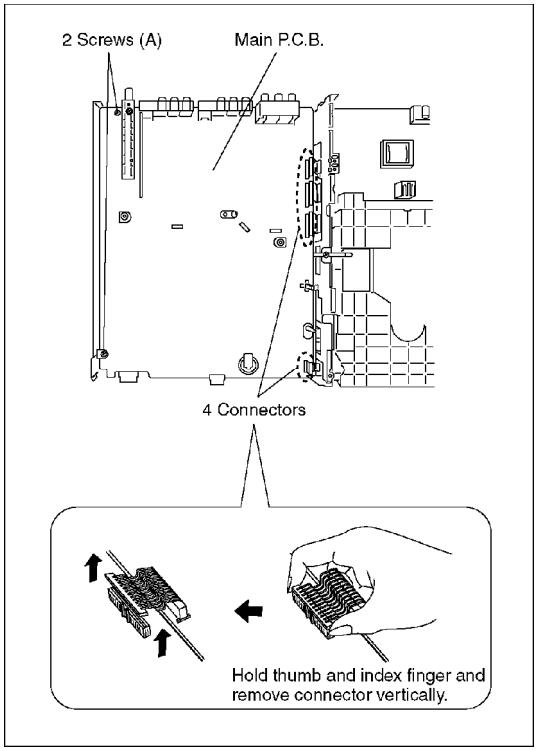
13.9.1. Caution for attaching VTR Mechanism Unit

1. **Because Position SW should be set to "Eject Position", refer to fig.(A) and set the position switch so that the boss and arrow mark come on a straight line.**
2. **Attach VTR Mechanism Unit so that Boss of Position SW is put into long hole of Main Cam Gear, refer to Fig. (B).**



13.10. Main P.C.B.

1. **Disconnect 4 Connectors.**
2. **Remove 2 Screws (A), and remove Main P.C.B.**

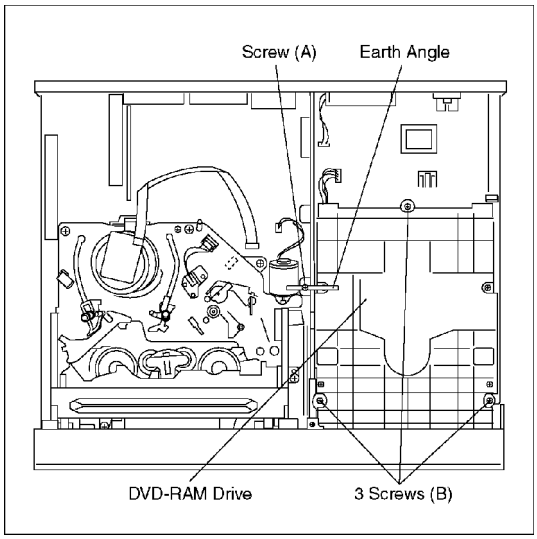


13.11. DVD-RAM Drive

1. Remove Screw (A) and Earth Angle.

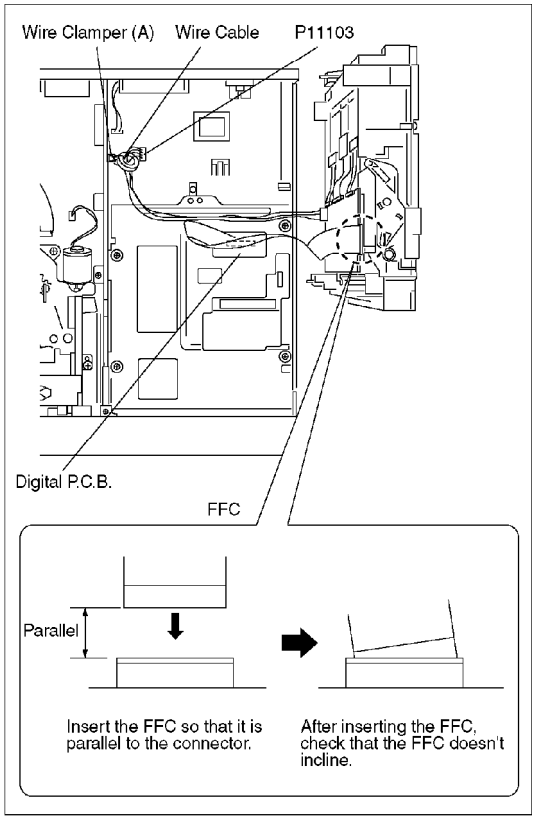
2. Remove 3 Screws (B).

3. Lift up DVD-RAM Drive slightly.



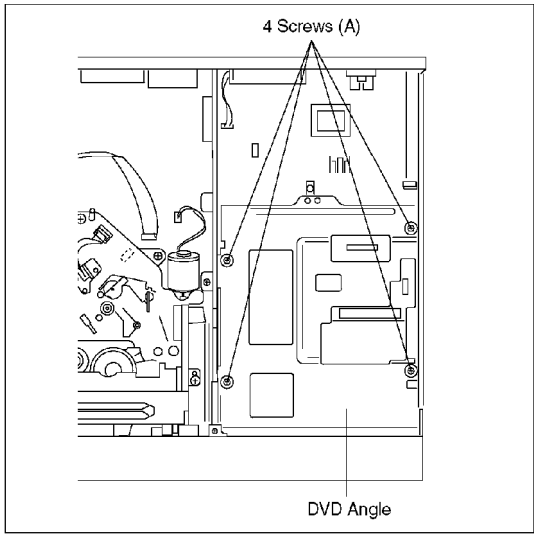
4. Remove wire cable from Wire Clamper (A).

5. Disconnect Connector P11103 and FFC from Digital P.C.B.



13.12. Digital P.C.B.

1. Remove 4 Screws (A) and DVD Angle.



2. Disconnect FFC.

3. Remove Screw (B).

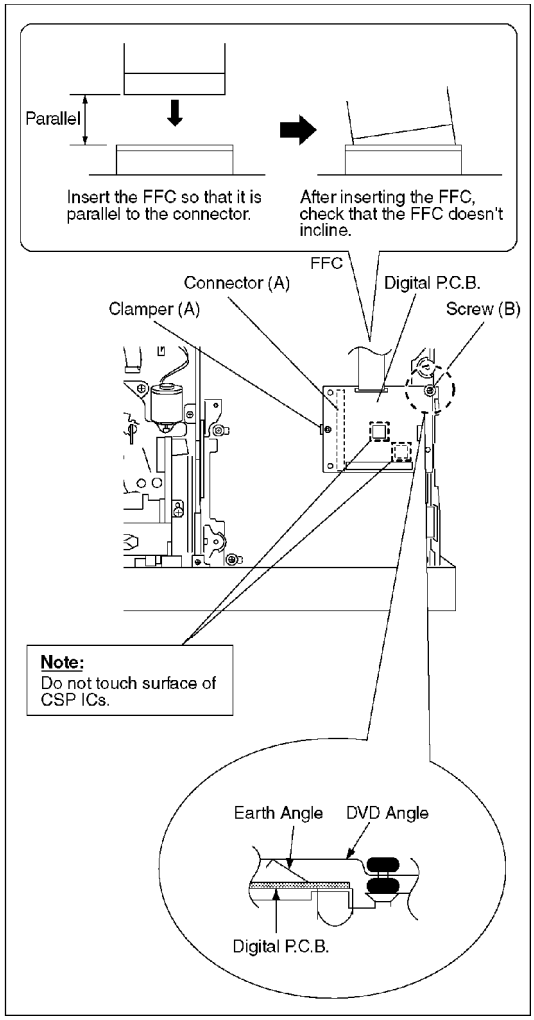
4. Unlock Clamper (A), pay attention to Connector (A), and pull out Digital P.C.B. to disconnect Connector (A).

CAUTION 1:

When replacing Digital P.C.B., pay attention to inserting FFC, and be careful to do not touch surface of CSP ICs.
If you have touched surface of CSP IC, clean up with alcohol and so on to prevent oxidation.

CAUTION 1:

When attaching Digital P.C.B. on to Earth Angle, Earth Angle should be touches to DVD angle as shown below.



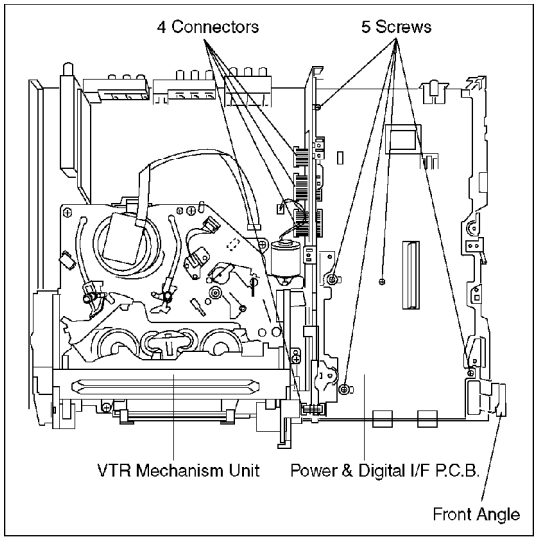
13.13. Power & Digital I/F P.C.B.

1. **Remove Front Panel (refer to 13.5.), Rear Panel (refer to 13.7.), DVD -RAM Drive (refer to 13.11.),Digital P.C.B. (refer to 13.12.) and VTR Mechanism (refer to 13.9.).**
2. **Disconnect 4 Connectors.**
3. **Install VTR Mechanism (refer to 13.9.).**

4. Remove the 5 screws.

5. Remove Front Angle.

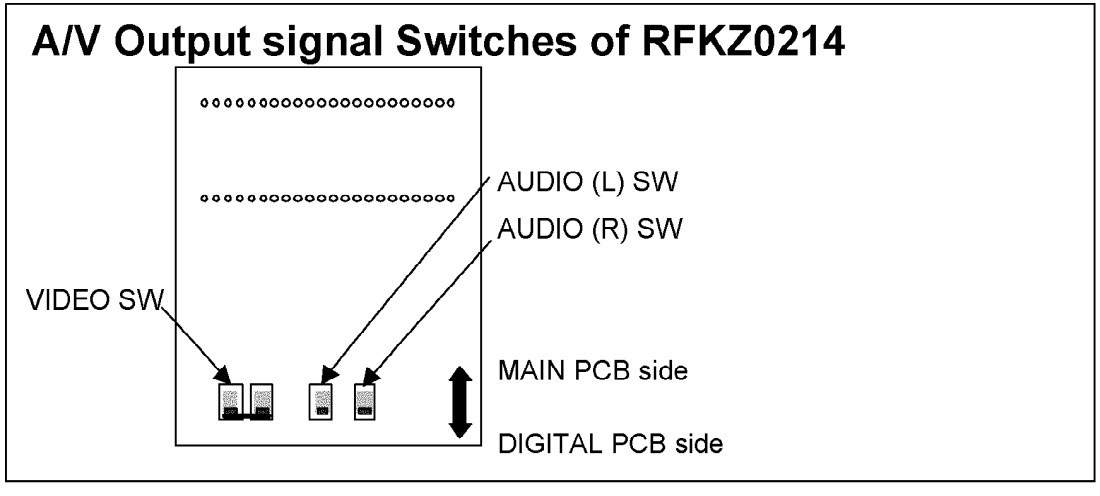
6. Remove Power & Digital I/F P.C.B.



14. Service Fixture and Tools

Part Number	Description	Pcs	Compatibility
RFKZ0125	Extension FFC (Digital P.C.B. - DVD-RAM Drive / 40 Pin)	1	Same as E50 series
RFKZ0168	Extension Cable (Power & Digital I/F P.C.B. - FAN / 3 Pin)	1	Same as E50 series
RFKZ0169	Extension Cable (RAM Drive - Power & Digital I/F P.C.B. / 4 Pin)	1	Same as E50 series
VFK1729	Extension Cable (Main P.C.B. - Power & Digital I/F P.C.B./13pin/40mm)	1	New
RFKZ0240	Extension Cable (Main P.C.B. - Power & Digital I/F P.C.B./19pin/40mm)	2	New
	Extension Cable (Main P.C.B. - Power & Digital I/F P.C.B./19pin/40mm)		
RFKZ0178	Extension Cable (Main P.C.B. - Power & Digital I/F P.C.B./7pin/40mm)	1	New
RFKZ0214	Extension Cable (Power & Digital I/F P.C.B. - Digital P.C.B. / 88 Pin)	1	Same as DMR-E55
RFKZ0215	Extension Cable (MainP.C.B. - Front (Jack) P.C.B. / 12 Pin)	1	Same as DMR-E55
VFK1562	Extension Cable (MainP.C.B. - I/O P.C.B. / 18 Pin)	2	New
VFK1562	Extension Cable (MainP.C.B. - I/O P.C.B. / 18 Pin)		
VFK1634	Extension Cable (MainP.C.B. - I/O P.C.B. / 7 Pin)	1	New
RFKZ0239	Extension Cable (Power & Digital I/F P.C.B. - FL Drive P.C.B. / 10 Pin)	1	New
RFKZ0238	Extension Cable (Power & Digital I/F P.C.B. - FL Drive P.C.B. / 8 Pin)	2	New
	Extension Cable (Main P.C.B. - FL Drive P.C.B. / 8 Pin)		

NOTE:
Extension Cable RFKZ0214 has A/V Output Signal switches.
Output signals can be switched from MAIN P.C.B. side or DIGITAL P.C.B. side.
When check MAIN P.C.B., turn switches to MAIN P.C.B. side.
When check DIGITAL P.C.B., turn switches to DIGITAL P.C.B. side.



(For VHS)

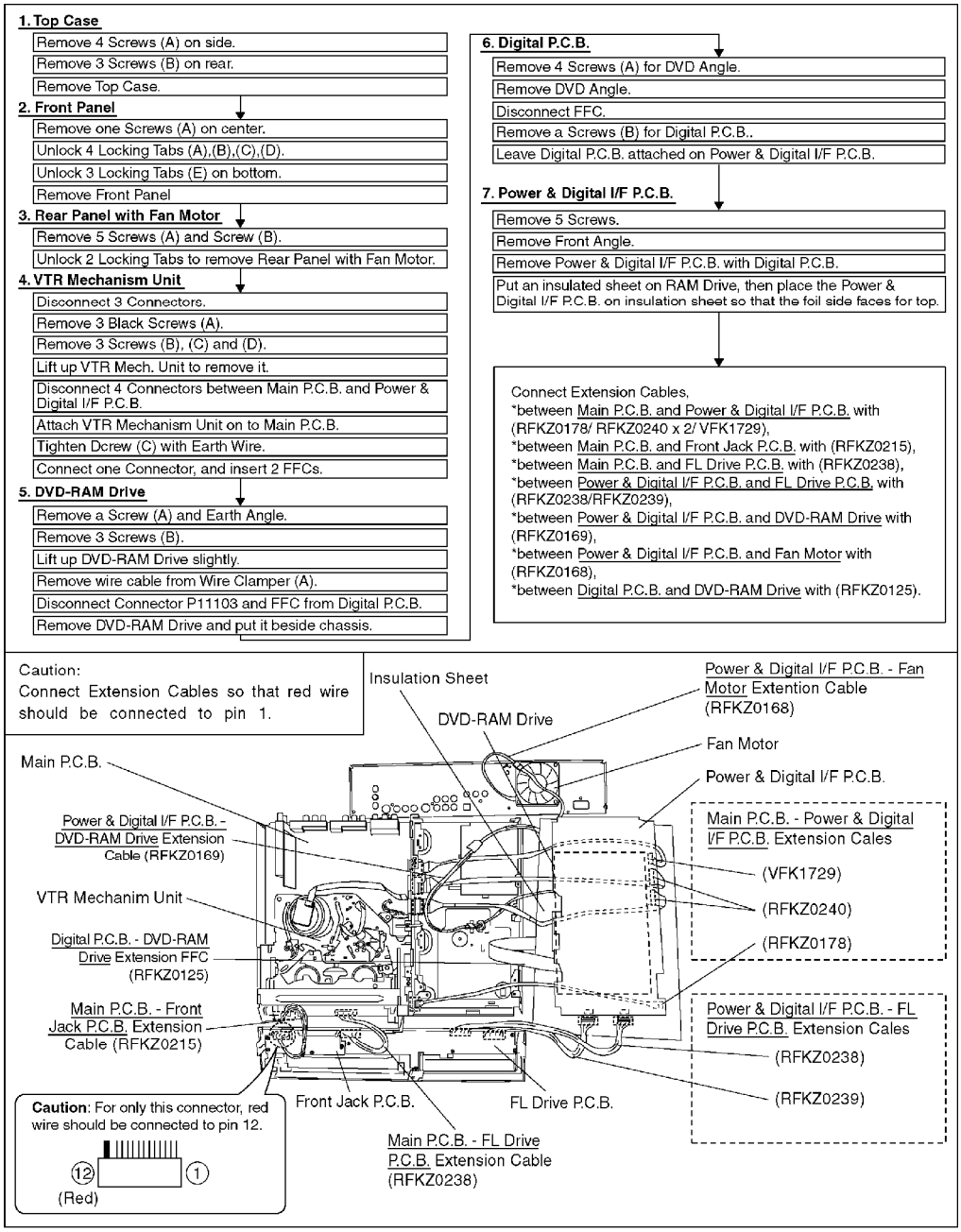
Part Number	Description	Pcs	Compatibility
VFM8080HQFP	NTSC VHS Alignment Tape	1	New
VFK0329	Post Adjustment Screwdriver	1	New
VFK0330	Fine Adjustment Gear Driver	1	New

New

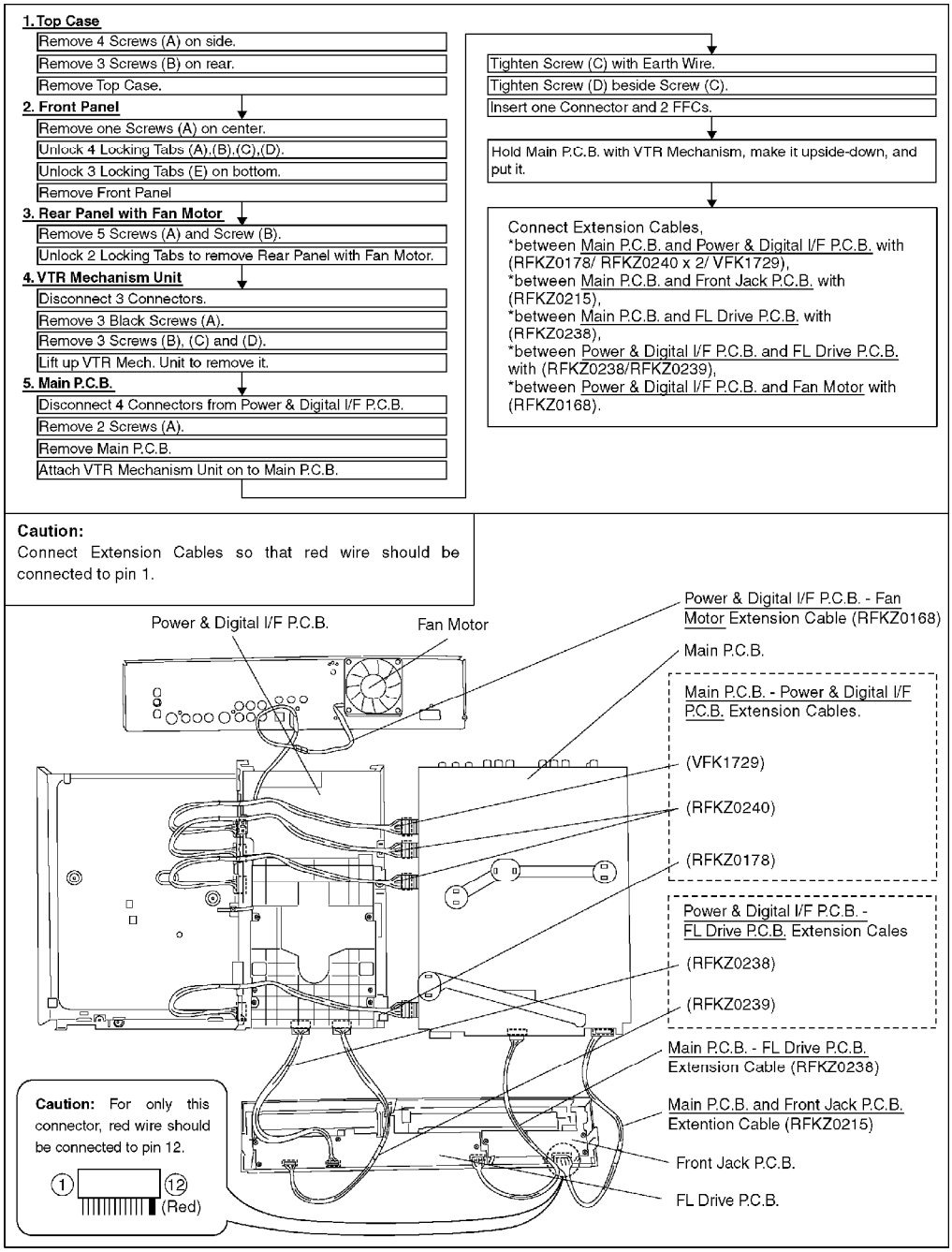
15. Service Positions

Note:
For description of the disassembling procedure, see the section 13.

15.1. Checking and Repairing of Power & Digital I/F P.C.B.



15.2. Checking and Repairing of Main P.C.B.



15.3. Checking and Repairing of Digital P.C.B.

1. Top Case

- Remove 4 Screws (A) on side.
- Remove 3 Screws (B) on rear.
- Remove Top Case.

2. DVD-RAM Drive

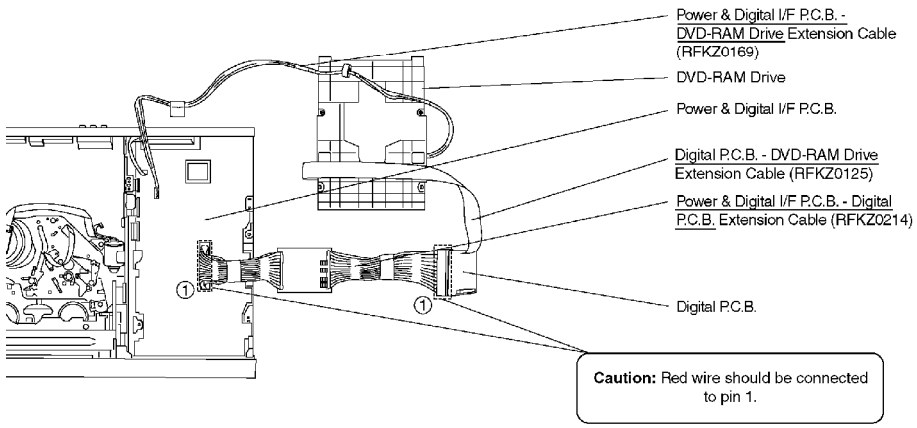
- Remove a Screw (A) and Earth Angle.
- Remove 3 Screws (B).
- Lift up DVD-RAM Drive slightly.
- Remove wire cable from Wire Clamper (A).
- Disconnect Connector P11103 and FFC from Digital P.C.B.
- Remove DVD-RAM Drive and put it beside chassis.

3. Digital P.C.B.

- Remove 4 Screws (A) for DVD Angle.
- Remove DVD Angle.
- Disconnect FFC.
- Remove a Screws (B) for Digital P.C.B..
- Remove Digital P.C.B.

Connect Extension Cables,
*between Power & Digital I/F P.C.B. and Digital P.C.B. with (RFKZ0214),
*between Power & Digital I/F P.C.B. and DVD-RAM Drive with (RFKZ0169),
*between Digital P.C.B. and DVD-RAM Drive with (RFKZ0125).

Caution:
Connect Extension Cables so that red wire of RFKZ0214 should be connected pin 1 .



15.4. Checking and Repairing of I/O P.C.B.

1. Top Case

Remove 4 Screws (A) on side.

Remove 3 Screws (B) on rear.

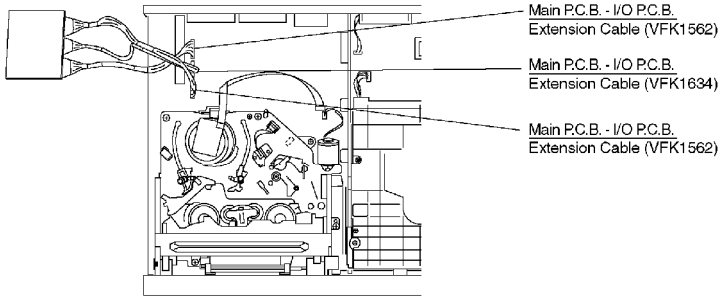
Remove Top Case.

2. I/O P.C.B.

At first, disconnect one connector on one side of I/O P.C.B. and pull out the I/O P.C.B.

Connect Extension Cables,
*between Main P.C.B. and I/O P.C.B. with (VFK1562/ VFK1562/ VFK1634).

Caution:
Connect Extension Cables so that red wire should be connected to pin 1.



15.5. Checking and DVD-RAM Drive

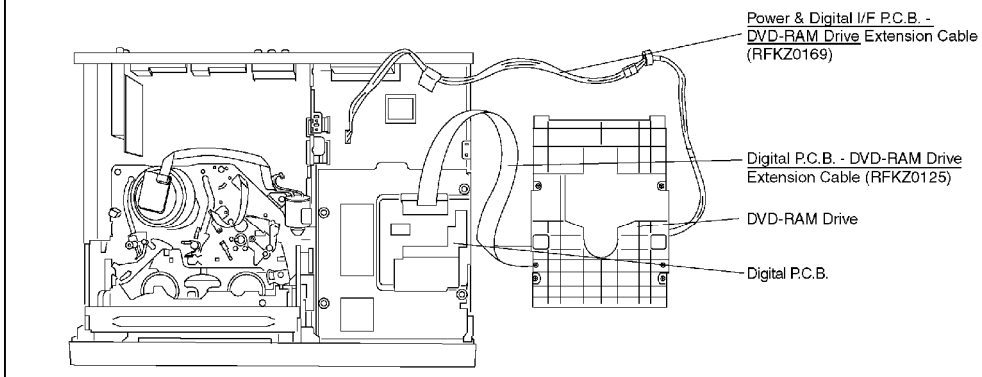
1. Top Case

Remove 4 Screws (A) on side.
Remove 3 Screws (B) on rear.
Remove Top Case.

2. DVD-RAM Drive

Remove a Screw (A) and Earth Angle.
Remove 3 Screws (B).
Lift up DVD-RAM Drive slightly.
Remove wire cable from Wire Clamper (A).
Disconnect Connector P11103 and FFC from Digital P.C.B.
Remove DVD-RAM Drive and put it beside chassis.

Connect Extension Cables,
*between Power & Digital I/F P.C.B. and DVD-RAM Drive with (RFKZ0169),
*between Digital P.C.B. and DVD-RAM Drive with (RFKZ0125).



16. (DVD) Caution after parts replacing parts

16.1. (DVD) After replacing the RAM Drive with new one

After replacing of RAM drive unit, TEST mode is not necessary. Please confirm operation for RAM drive

Caution:

In this case, all parameters are initialized.

16.2. (DVD) When the unit does not operate normally after replacing the Timer Microprocessor with new one

in order to transmit the

Step	Operation	Descriptions
1	While power is ON, short IC37508-4 pin (RESET) and the GND.	“RESET (L)” is transmitted to the terminal of Timer Microprocesso 11 pin), then the unit operates nc

17. (VHS) Caution after replacing parts

PG Shifter Automatic Adjustment and X-VALUE & LINEARITY (P2 and P3 Posts) ADJUSTMENT

should be performed after replacing DD Cylinder, VHS Microprocessor or Main P.C.B.

17.1. (VHS) Adjustment Procedures after replacing DD Cylinder, VHS Microprocessor or Main P.C.B.

ADJUSTMENT PROCEDURE

PROCEDURE	F.I.P. DISPLAY
Turn on the Service Mode **1.Press the FF key and the EJECT key simultaneously for more than 3 seconds.**	00000
Activate the Service Mode 2 **2. While keep pressing FF key, press the EJECT key twice.**	20000
Activate the Entering Mode. **3. Press the EJECT key for more than 3 seconds.**	2 00
Set the Mode 2. **4. Press the CH UP key once.**	2 100
Insert the alignment cassette tape (VFM8080HQFP) **5. The PG Shifter Adjustment starts automatically.**	2 100
When the sequence of the automatic adjustment has been terminated, the following action has been made. ● **SUCCEED: The cassette tape is ejected.** ● **ERROR:The "F20", "F21", "F22" or "F23" is displayed. Refer to next PG Shifter Adjustment Self-Diagnosis Indication Table regarding the details of the indications.**	
Exit from Service Mode. **6. Press FF and EJECT keys simultaneously in 6 times. Then the FIP becomes normal indication.**	10:00 **(Normal Indication)**

PG SHIFTER AUTOMATIC ADJUSTMENT SELF-DIAGNOSIS INDICATION

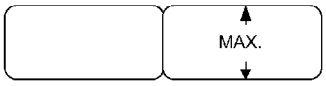
F20	**NG1 in the PG Shifter Automatic Adjustment (The cylinder rotation is unstable during the automatic adjustment.)**
F21	**NG2 in the PG Shifter Automatic Adjustment (The vertical sync signal is lacked while over 5 seconds on the alignment tape.)**
F22	**NG3 in the PG Shifter Automatic Adjustment (The installing position of Heads to the cylinder is our of specification.**
F23	**NG4 in the PG Shifter Automatic Adjustment (The servo is not locked to the cylinder for more than 10 sec.)**

NOTE:
When DD Cylinder was replaced, the Tape Interchangeability adjustment (X-Value Adjustment, P2 and P3 Posts Adjustment) shown below should be performed after the PG Shifter Automatic Adjustment.

17.2. (VHS) X-VALUE & LINEARITY (P2 and P3 Posts) ADJUSTMENT

1. Set the Auto Tracking to off.
   (1) Press the FF key and the EJECT key simultaneously for more than 3 seconds to enter Service Mode.
   (2) While keep pressing FF key, press the EJECT key twice to activate Service Mode 2, then Auto-Tracking is turned off.
2. Perform the X-VALUE ADJUSTMENT
   11.5.2. After turning off the Auto tracking, playback the alifnment Tape and press [VHS CH UP] and [VHS CH DOWN] keys simultaneously to adjust the tracking to FIX value.
   11.5.3. Adjust A/C Head Base so that the envelope becomes maximum level.
   (It is described on **"5.2. Tape Interchangeability Adjustment" in "R4 MECHANISM CHASSIS for North America Model: Order No. VR0404003C1"** that is separated volume.)

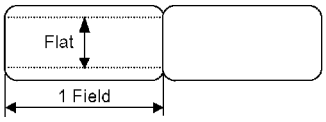
Alignment Tape	VFM8080HQFP
Test Point of Playback Envelope	TW3001 (or TW4502)



Playback Envelope

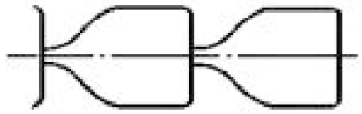
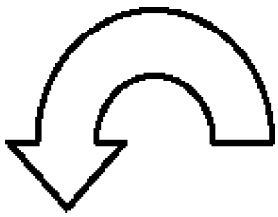
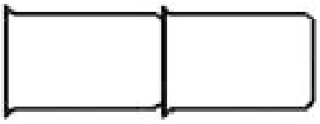
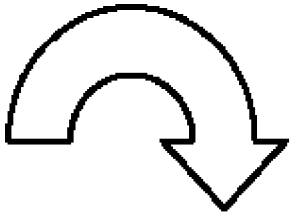
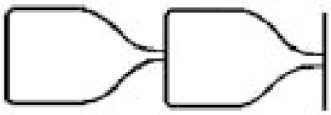
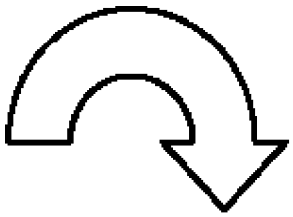
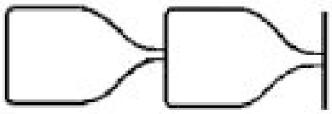
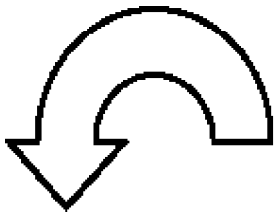
3. Perform the LINEARITY ADJUSTMENT
   (1) After turning off the Auto tracking, playback the alignment Tape and press [VHS CH UP] and [VHS CH DOWN] keys simultaneously to adjust the tracking to FIX value.
   (2) Adjust the LINEARITY so that the envelope is flat when moving tracking to (+) and (-) directions.3

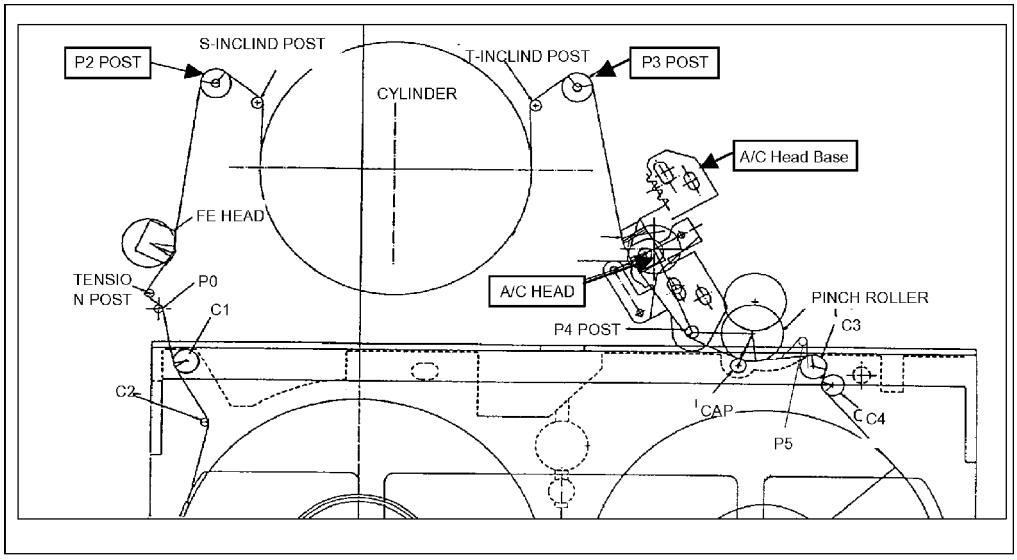
Alignment Tape	VFM8080HQFP
Test Point of Playback Envelope	TW3001 (or TW4502)



Playback Envelope

● **Main symptoms and Adjustment point**

Envelope	Post Name	Adjustment Method
	**P2 Post** 	**Turn P2 Post counter-clockwise** **(Approx. 1/2 revolution)**
	**P2 Post** 	**Turn P2 Post clockwise** **(Approx. 1/4 revolution)**
	**P3 Post** 	**Turn P3 Post clockwise** **(Approx. 1/2 revolution)**
	**P3 Post** 	**Turn P3 Post counter-clockwise** **(Approx. 1/4 revolution)**
	**P2 Post**  **P3 Post** 	**Turn P2 Post clockwise** **(Less than 1 revolution)** **Turn P3 Post counter-clockwise** **(Less than 1revolution)**

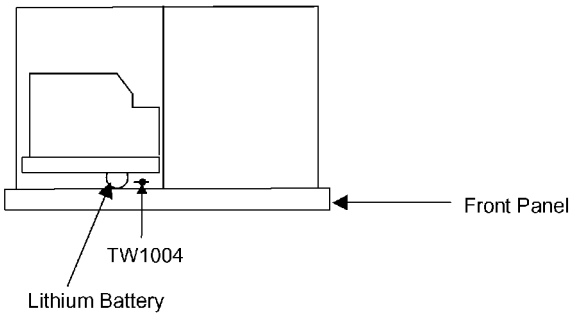


17.3. (VHS) Caution after replacing VHS Microprocessor (IC6001)

After replacing VHS Microprocessor (IC6001), turn VHS section into FACRORY mode so that IC6001 should be initialized.

Note:
If you execute Fact operation to VHS Microprocessor (IC6001), parameters including Tuner set up of VHS side will be initialized. Confirm set contents of VHS side and write channel setting and every mode settings down before replacing.

1. Pull the AC plug off.
2. Short out circuit between C6101 (TW1004: D5V back up line) and GND momentarily. Then a Low pulse signal is sent to IC6001 to turn the unit into FACTORY mode for initializing IC6001.
3. Put back each setting to that set by customer.



18. (DVD) Standard Inspection Specifications after Making Repairs

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check
1	Turn on the power, and confirm items pointed out.	Items pointed out should reappear.
2	Insert RAM disc.	The Panasonic RAM disc should be recog
3	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the pict sound or operation.
4	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the pict sound or operation.
5	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the pict sound or operation.
6	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appears FL displays. *[UNSUPPORT] display means the unit is updated to newest same version. Then ve is not necessary.
7	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [CLR SERV] appears in the display. After checking it, turn the power off.
8	When replacing of RAM drive, transfer [9] [5] in the service mode setting to delete Laser used time.	Make sure that [CLR LASER] appears in th display. After that, turn power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Check	Item	Contents
Picture	Block noise		Sound	Distorted sound
	Crosscut noise			Noise (static, background noise, etc.)
	Dot noise			The sound level is too low.
	Picture disruption			The sound level is too high.
	Not bright enough			The sound level changes.
	Too bright			
	Flickering color			
	Color fading			

19. Voltage and Waveform Chart

Note)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
  Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

19.1. Power & Digital I/F P.C.B.

19.2. Main P.C.B.

19.3. I/O P.C.B.

19.4. FL Drive P.C.B.

19.5. Front Jack P.C.B.

19.6. P9001 Connector

19.7. Waveform

20. Abbreviations

20.1. DVD

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	AUDIO RF
	ASI	SERVO AMP INVERTED INPUT
	ASO	SERVO AMPOUTPUT
	ASYNC	AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK

INITIAL/LOGO		ABBREVIATIONS
C	CAV	CONSTANT ANGULAR
	CBDO	VELOCITY
	CD	CAP. BLACK DROP OUT
	CDSCK	COMPACT DISC
	CDSRDATA	CD SERIAL DATA CLOCK
		CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	
	DO	DIGITAL MUTE CONTROL
	DOUT0~UP	DROP OUT
		DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/ 40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	FOCUS ERROR AMP OUTPUT
	FG	FREQUENCY GENERATOR
	FSC	FREQUENCY SUB CARRIER
	FSCK	FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	INTERPOLATION FLAG
	IREF	I (CURRENT) REFERENCE
	ISEL	INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORYSERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP

		GROUP

INITIAL/LOGO		ABBREVIATIONS
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE
	PCK	DIFFERENCE
	PDVD	PLL CLOCK
	PEAK	DVD TRACKING PHASE
	PLLCLK /	DIFFERENCE
	PLLOK	CAP. FOR PEAK HOLD
	PWMCTL	CHANNEL PLL CLOCK
	PWMDA	PLL LOCK
	PWMOA, B	PWM OUTPUT CONTROL
		PULSE WAVE MOTOR DRIVEA
		PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE

INITIAL/LOGO		ABBREVIATIONS
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA
		SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK
	VREF	VOLTAGE REFERENCE
	VSS	SOURCE POWER SUPPLYVOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT

20.2. VHS

21. Block Diagram

21.1. Power Supply Block Diagram

21.2. Digital I/F Regulator Block Diagram

21.3. Digital I/F Timer Block Diagram

21.4. System Control, Servo & Timer Block Diagram

21.5. Audio Block Diagram

21.6. Video Block Diagram

21.7. Digital Block Diagram

21.8. Digital Block IC Pin Terminal Chart

22. Schematic Diagram

22.1. Interconnection Schematic Diagram

23.3. Digital P.C.B.

23.3.1. Digital P.C.B. (Component Side)

23.3.2. Digital P.C.B. (Foil Side)

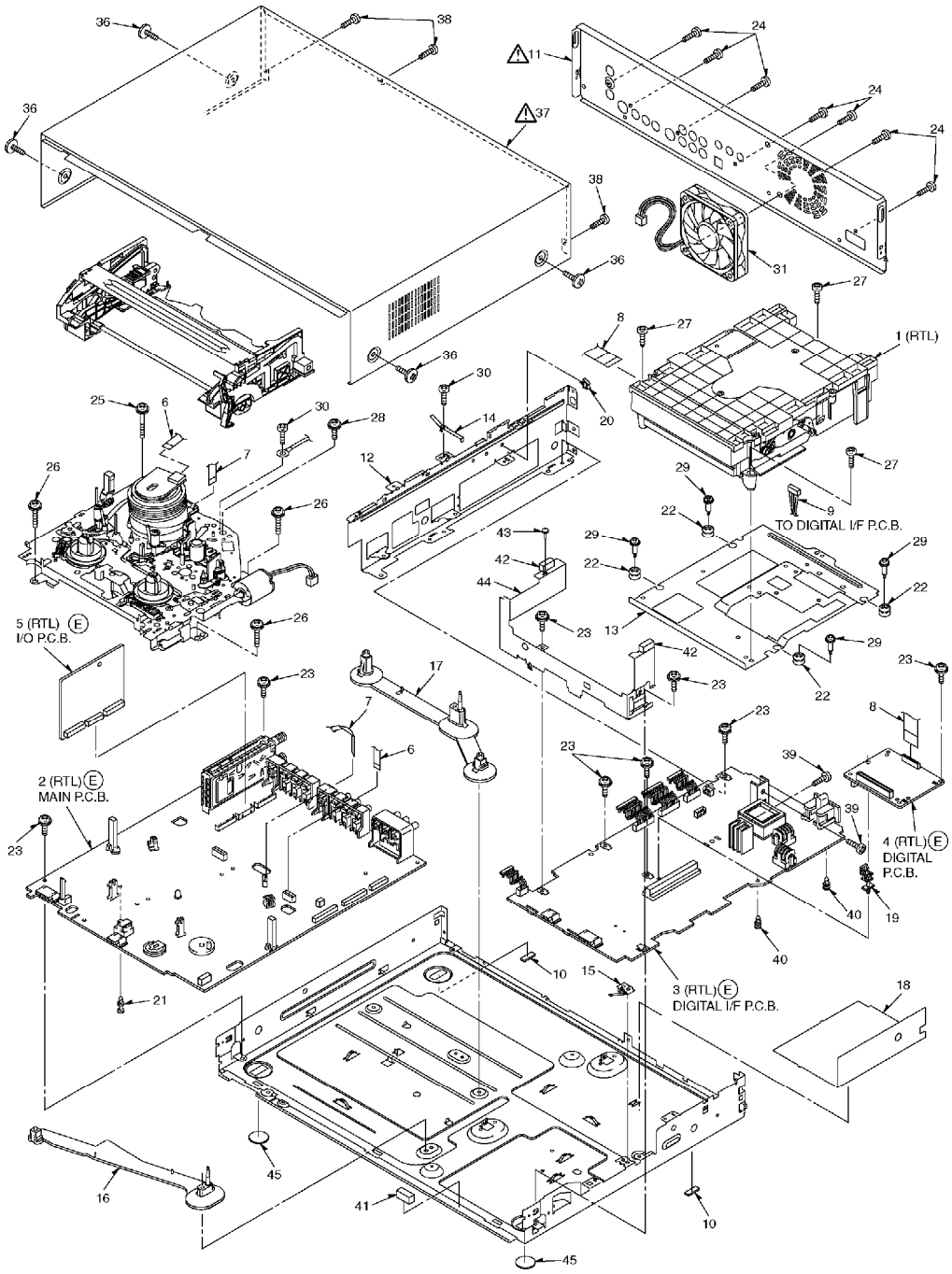
23.3.3. Digital P.C.B. Address Information

23.4. I/O P.C.B.

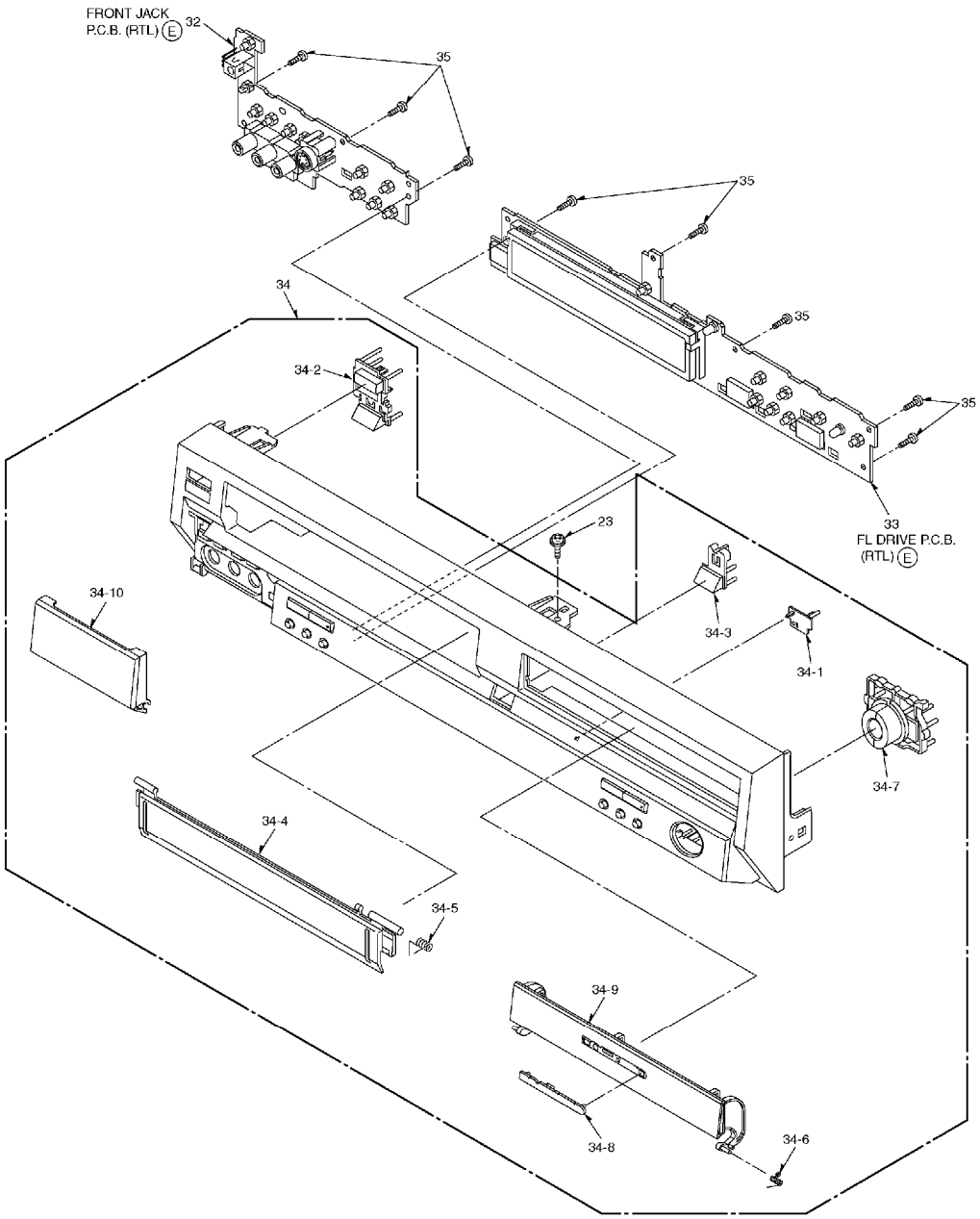
23.5. Front Jack , FL Drive P.C.B.

24. Exploded Views

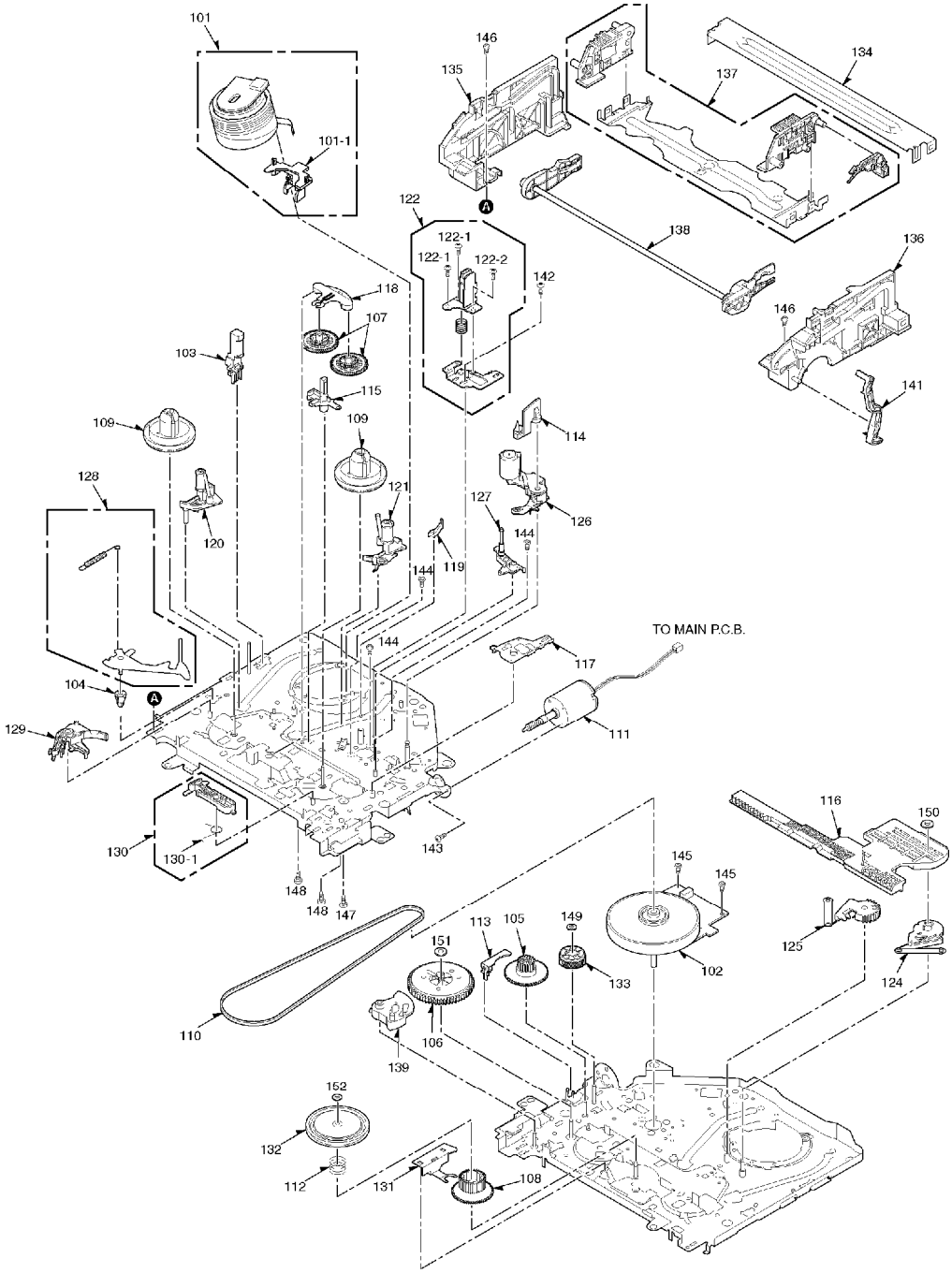
24.1. Casing Parts & Mechanism Section 1



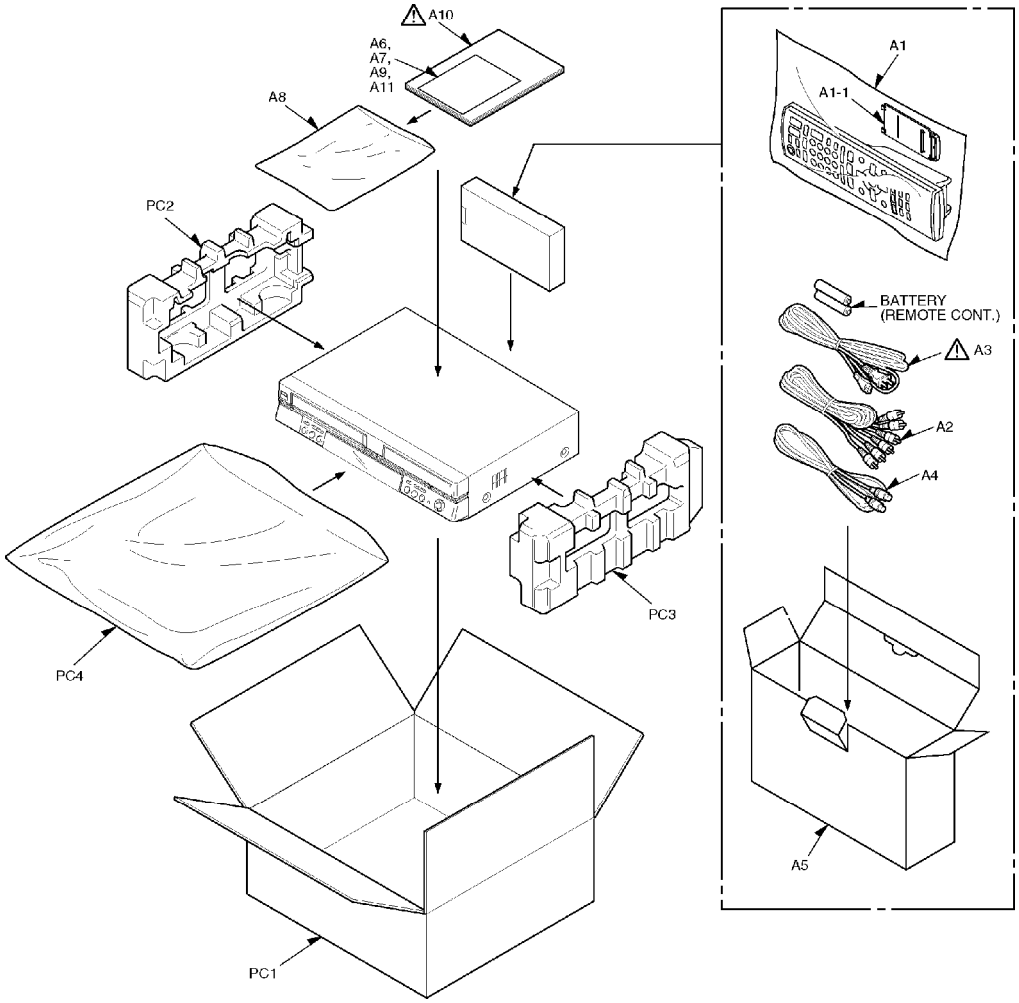
24.2. Casing Parts & Mechanism Section 2



24.3. VHS Mechanism Section



24.4. Packing & Accessories Section



25. Replacement Parts List

Notes:

***Important safety notice:**

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**

***"<IA>", marks in Remarks indicate languages of instruction manuals. [<IA>: English] All parts are supplied by S.P.C..**

***Supply of CD-ROM, in accordance with license protection, is allowable as replacement parts only for customers who accidentally damaged or lost their own.**

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	01	CASING/ACCESSORY/PACKING		
1	VXY1813	RAM DRIVE UNIT	1	(RTL)
2	VEP06F77BT	MAIN P.C.B.	1	(RTL)
3	VEP09133A	DIGITAL IF P.C.B.	1	(RTL)
4	REP3717G	DIGITAL P.C.B.	1	
5	VEP03G66B	I/O P.C.B.	1	(RTL)
6	VWJ1727	FFC(8P)	1	
7	VWJ1728	FFC(6P)	1	
8	VWJ1743	FFC(42P)	1	
9	VEE0Z49	WIRE WITH CONNECTOR(4P)	1	
10	VKA0364	FOOT	2	
11	VMP7969	BACK PANEL	1	⚠
12	VMP7968	CENTER ANGLE	1	
13	VMP7976	DVD ANGLE	1	
14	VMC1942	EARTH SPRING(DVD)	1	
15	VMC1937	EARTH SPRING(DIGITAL)	1	
16	VMX3115	MECHA SPACER(F)	1	
17	VMX3229	MECHA SPACER(R)	1	
18	VMZ3445	BARRIER	1	
19	VKC0612	PCB SPACER	1	
20	VJF0442	CLAMPER	1	
21	VKC0554	PCB SPACER	1	
22	VMG1455	HDD DUMPER	4	
23	XTW3+6TR	SCREW	9	
24	VHD0690	SCREW	7	
25	VHD1452	SCREW	1	
26	VHD1453	SCREW	3	
27	RHD30115	SCREW	3	
28	VHD1092	SCREW	1	
29	VHD1662	SCREW	4	
30	XTV26+6F	SCREW	3	
31	L6FALCCE0006	FAN MOTOR	1	
32	VEP04868B	FRONT JACK P.C.B.	1	(RTL)
33	VEP07A74B	FL DRIVE P.C.B.	1	(RTL)
34	VYP8963	FRONT PANEL ASS'Y1	1	
34-1	VGL1100	PANEL LIGHT	1	
34-2	VGU9602	POWER BUTTON	1	
34-3	VGU9603	EJECT BUTTON(DVD)	1	
34-4	VKF3878	BLINDER PANEL	1	
34-5	VMB2521	BLINDER SPRING	1	
34-6	VMB3410	TRAY SPRING	1	
34-7	VXU1634	DUB BUTTON ASS'Y	1	
34-8	VGB0617	DVD RECORDING BADGE	1	
34-9	VKF3879	TRAY DOOR	1	
34-10	VYF2990	DOOR ASS'Y	1	
35	XTBS26+8J	SCREW	8	
36	RHD30113	SCREW	4	
37	VGM2077	TOP PANEL	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
38	VHD0690	SCREW	3	
39	XTN3+8G	SCREW	2	
40	VKC0295	PCB HOLDER	2	
41	K4ZZZZ000006	GASKET	1	
42	K4ZZZZ000008	GASKET	2	
43	VGQ8142	RIVET	1	
44	VMP8102	FRONT SHIELD	1	
45	VKA0385	LEG	2	
101	VEG1641KIT	RDD CYLINDER ASS'Y	1	
101-1	VMD4983	FPC HOLDER	1	
102	VEM0750T	CAPSTAN MOTOR	1	
103	L1AZ00000004	FE HEAD UNIT	1	
104	VDB1431	TENSION ARM BOSH	1	
105	VDG1510	INTERMEDIATE GEAR	1	
106	VDG1511	MAIN CAM GEAR	2	
107	VDG1512	IDLER GEAR	1	
108	VDG1514	CHANGE GEAR	2	
109	VDR0372	REEL TABLE	1	
110	VDV0391	CAPSTAN BELT	1	
111	VEM0797	LOADING MOTOR	1	
112	VMB3550	CHANGING GEAR SPRING	1	
113	VMD4249	WORM SHAFT HOLDER	1	
114	VMD4252	OPENER PIECE	1	
115	VMD4253	LED PRISM	1	
116	VML3624	MAIN LEVER		
117	VML3626	PINCH CHARGE ARM	1	
118	VML3632	IDLER ARM	1	
119	VMX3092	P4 CAP	1	
120	VXA7105	S SHAFT HOLDER	1	
121	VXA7106	T SHAFT HOLDER	1	
122	L1AE00000036	AC HEAD ASS'Y	1	
122-1	VHD1066	SCREW	2	
122-2	VHD1185	SCREW	1	
124	VXL3107	S LOADING ARM	1	
125	VXL3108	T LOADING ARM	1	
126	VXL3109	PINCH ARM	1	
127	VXL3110	P5 ARM	1	
128	VXL3111	TENSION ARM	1	
129	VXL3112	S BRAKE ARM	1	
130	VXL3113	T BRAKE ARM	1	
130-1	VMB3548	T BRAKE SPRING	1	
131	VXL3124	CHANGING LEVER	1	
132	VXP2133	CENTER CLUTCH	1	
133	VXP2168	TORQUE CLUTCH	1	
134	VMA0L25	TOP PLATE	1	
135	VMD4255	SIDE PLATE L	1	
136	VMD4254	SIDE PLATE R	1	
137	VXA7110	CASSETTE HOLDER UNIT	1	
138	VXL3160	MAIN SHAFT	1	
139	VXA7311	SECTOR GEAR	1	
141	VML3706	OPENER LEVER	1	
142	VHD1044	SCREW	1	
143	XYN3+C4	SCREW	1	
144	XTN26+7J	SCREW	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
145	XTV26+5F	SCREW	2	
146	XTV26+8FR	SCREW	2	
147	VHD1095	SCREW	1	
148	VHD1117	SCREW	2	
149	VMX2208	WASHER	1	
150	VMX3114	WASHER	1	
151	VMX2699	WASHER	1	
152	VMX3196	WASHER	1	
A1	EUR7721X10	REMOTE CONTROL ASS'Y	1	
A1-1	UR77EC2003A	BATTERY COVER	1	
A2	K2KA6CA00001	AV CORD	1	
A3	K2CB2CB00006	AC CORD	1	⚠
A4	K2KZ2BA00001	RF COAXIAL CABLE	1	
A5	RPQF0220	ACCESSORY CASE	1	
A6	RQCA1004	DISC CAUTION SHEET	1	
A7	RQCB0833	CCP SHEET	1	
A8	RPF0378	POLYETHYLENE BAG(F.B.)	1	
A9	RQCC2431	DVD MEDIA SHEET	1	
A10	VQT0H76	OPERATING INSTRUCTIONS	1	<IA> ⚠
A11	VQC4900	REMOTE CONTROL SHEET	1	
PC1	RPG7119	PACKING CASE	1	
PC2	RPN1705A	CUSHION(L)	1	
PC3	RPN1705B	CUSHION(R)	1	
PC4	VPF0505	POLYETHYLENE BAG(UNIT)	1	
■	02	VEP06F77BT		(MAIN P.C.B.)
B7751	CR2354-1GUF	LITHIUM BATTERY	1	
C1341	ECJ1VF1H103Z	50V 0.01U	1	
C1342	ECEA1HKA4R7	50V 4.7U	1	
C1351	ECJ1VF1H103Z	50V 0.01U	1	
C1352	ECEA0JKS220	6.3V 22U	1	
C2001	ECJ1VC1H330J	50V 33P	1	
C2003	ECJ1VF1A105Z	10V 1U	1	
C2051	ECEA0JKN220	6.3V 22U	1	
C2053	ECEA1CKS100	16V 10U	1	
C2054	ECJ1VB1H392K	50V 3900P	1	
C2055	ECJ1VF1C104Z	16V 0.1U	1	
C2099	ECJ1XC1H681J	50V 680P	1	ECJ1VC1H681J
C2501	ECJ1VF1C104Z	16V 0.1U	1	
C2502	F2A0J221A245	6.3V 220U	1	
C2504,05	ECJ1VB1E223K	25V 0.022U	2	
C2506	ECJ1VB1A224K	10V 0.22U	1	
C2507	ECJ1VB1H102K	50V 1000P	1	
C2508	ECJ1VB1H182K	50V 1800P	1	
C2509	ECEA1CKA220	16V 22U	1	
C2510-12	ECJ1XB1C104K	16V 0.1U	3	ECJ1VB1C104K
C2513	ECJ1VF1A105Z	10V 1U	1	
C2515	ECJ1VF1H103Z	50V 0.01U	1	
C2518,19	ECJ1VF1H103Z	50V 0.01U	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2551,52	ECJ1VB1C563K	16V 0.056U	2	
C2561,62	ECJ1VB1C563K	16V 0.056U	2	
C2571	ECA1EM221	25V 220U	1	
C3001	ECJ1VC1H151J	50V 150P	1	
C3002,03	ECJ1XB1C104K	16V 0.1U	2	ECJ1VB1C104K
C3005	ECJ1VC1H220J	50V 22P	1	
C3006	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3007	ECJ1VB0J105K	6.3V 1U	1	
C3008	ECEA1HKA4R7	50V 4.7U	1	
C3009,10	ECJ1VB0J105K	6.3V 1U	2	
C3011	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3012	ECEA0JKA470	6.3V 47U	1	
C3014	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3015	ECJ1VB0J105K	6.3V 1U	1	
C3017	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3018	ECJ1VB1A105K	10V 1U	1	
C3019	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3020	F2A1H3R3A234	50V 3.3U	1	
C3021	F2A1V100A184	35V 10U	1	
C3023	ECJ1VB1H103K	50V 0.01U	1	
C3024	ECJ1VC1H331J	50V 330P	1	
C3025	ECJ1VF1H103Z	50V 0.01U	1	
C3027	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3028	ECEA1HKA4R7	50V 4.7U	1	
C3029	F2A1HR47A234	50V 47U	1	
C3030	ECJ1VB1E223K	25V 0.022U	1	
C3031	ECJ1VB1C333K	16V 0.033U	1	
C3032	ECEA1HKA4R7	50V 4.7U	1	
C3033	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3034	F2A1H2R2A234	50V 2.2U	1	
C3035	ECJ1VB1H472K	50V 4700P	1	
C3036	ECEA0JKA470	6.3V 47U	1	
C3037	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3038	ECJ1VC1H040C	50V 40P	1	
C3039	F2A1H1R0A234	50V 1U	1	
C3040,41	ECJ1VF1H103Z	50V 0.01U	2	
C3044	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3045	ECA1AHG221	10V 220U	1	
C3048	ECJ1VB0J105K	6.3V 1U	1	
C3050	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3053	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3073	ECJ1VB0J105K	6.3V 1U	1	
C3074	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3701	ECJ1VF1C104Z	16V 0.1U	1	
C3702	F2A0J470A179	6.3V 47U	1	
C3703-06	ECJ1VB1H103K	50V 0.01U	4	
C3709-11	ECJ1VB1H103K	50V 0.01U	3	
C3712,13	ECJ1VF1H103Z	50V 0.01U	2	
C3715,16	ECJ1VF1H103Z	50V 0.01U	2	
C3718,19	ECJ1VF1H103Z	50V 0.01U	2	
C3720	ECJ1VB1H103K	50V 0.01U	1	
C3721	ECA0JM102	6.3V 1000U	1	
C3722	ECEA0JKS101	6.3V 100U	1	
C3723	ECA0JM102	6.3V 1000U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3724,25	ECEA0JKS101	6.3V 100U	2	
C3726	ECA0JM102	6.3V 1000U	1	
C3727	ECEA0JKS101	6.3V 100U	1	
C3728	ECA0JM102	6.3V 1000U	1	
C3729	ECEA0JKS101	6.3V 100U	1	
C3730	ECA0JM102	6.3V 1000U	1	
C3732	ECEA0JKS470	6.3V 47U	1	
C3733	ECJ1VB1H103K	50V 0.01U	1	
C3736	ECJ1VF1C104Z	16V 0.1U	1	
C3737	ECEA0JKS220	6.3V 22U	1	
C3739	ECJ1VF1C104Z	16V 0.1U	1	
C3741	ECJ1VF1C104Z	16V 0.1U	1	
C3742	ECEA0JKS220	6.3V 22U	1	
C3743	ECJ1VB1C333K	16V 0.033U	1	
C3744	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3745	ECEA0JKS470	6.3V 47U	1	
C3746,47	ECJ1XB1C104K	16V 0.1U	2	ECJ1VB1C104K
C3751,52	ECJ1VC1H102J	50V 1000P	2	
C3753	ECJ1VC1H220J	50V 22P	1	
C3909	ECJ1VF1H103Z	50V 0.01U	1	
C3910	ECJ1VF1C104Z	16V 0.1U	1	
C3917	ECJ1VF1H103Z	50V 0.01U	1	
C3924	F2A0J471A247	6.3V 470U	1	
C3926	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3927,28	ECJ1VB0J105K	6.3V 1U	2	
C3945	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C3946	ECJ1VF1H103Z	50V 0.01U	1	
C3960	F2A0J101A245	6.3V 100U	1	
C3963	ECJ1VF1H103Z	50V 0.01U	1	
C4004	ECJ1VB1H182K	50V 1800P	1	
C4005	ECEA0JKS220	6.3V 22U	1	
C4006	ECEA1HKA4R7	50V 4.7U	1	
C4007	ECJ1VB1H182K	50V 1800P	1	
C4008	ECEA1HKS3R3	50V 3.3U	1	
C4009	ECEA0JKA330	6.3V 33U	1	
C4011	ECJ1VB1H103K	50V 0.01U	1	
C4012	ECEA1HKA4R7	50V 4.7U	1	
C4013	ECJ1VF1H103Z	50V 0.01U	1	
C4017	F2A1V100A184	35V 10U	1	
C4019	F2A1V100A184	35V 10U	1	
C4081	ECJ1VB1C683K	16V 0.068U	1	
C4082	ECJ1XB1H471K	50V 470P	1	
C4083	ECEA0JKA470	6.3V 47U	1	
C4084	ECJ1VB1H182K	50V 1800P	1	
C4201	ECQB1H223JF	50V 0.023U	1	ECQB1H223JF3
C4301-04	F2A1V100A184	35V 10U	4	
C4305	F2A1A101A206	10V 100U	1	
C4306,07	F2A1V100A184	35V 10U	2	
C4501	ECQB1H473JF3	50V 0.047U	1	
C4502-04	F2A1V100A184	35V 10U	3	
C4505	ECEA0JKA330	6.3V 33U	1	
C4506	F2A1V100A184	35V 10U	1	
C4507	ECEA0JKS220	6.3V 22U	1	
C4508	ECJ1VB1C333K	16V 0.033U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4509,10	ECJ1VF1H103Z	50V 0.01U	2	
C4511	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C4512	ECJ1VB1A224K	10V 0.22U	1	
C4513	ECEA0JKS220	6.3V 22U	1	
C4514	F2A1V100A184	35V 10U	1	
C4515	ECEA0JKA330	6.3V 33U	1	
C4516	ECEA1CKS100	16V 10U	1	
C4517	ECEA0JKS220	6.3V 22U	1	
C4518	ECJ1VF1H103Z	50V 0.01U	1	
C4519-21	F2A1V100A184	35V 10U	3	
C4522	ECQB1H473JF3	50V 0.047U	1	
C4523	ECEA0JKS220	6.3V 22U	1	
C4524	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C4525	ECEA1CKA220	16V 22U	1	
C4526	ECJ1VF1H103Z	50V 0.01U	1	
C4534,35	ECQB1H153JF3	50V 0.015U	2	
C4537	ECUV1H560GCN	50V 1000P	1	ECJ2VC1H560G
C4538	ECJ1VF1H103Z	50V 0.01U	1	
C4573,74	ERJ3GEYJ682V	1/10W 6.8K	2	D0GB682JA002
C4601	F2A1V100A184	35V 10U	1	
C5001-04	ECJ1VB1H103K	50V 0.01U	4	
C5005	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C5006	F2A0J101A245	6.3V 100U	1	
C5007	ECJ1VF1C104Z	16V 0.1U	1	
C6001	ECJ1VC1H180J	50V 18P	1	
C6002	ECJ1VC1H220J	50V 22P	1	
C6003	ECJ1VC1H180J	50V 18P	1	
C6004	ECJ1VC1H220J	50V 22P	1	
C6005	F2A1H3R3A234	50V 3.3U	1	
C6006	ECJ1VC1H101J	50V 100P	1	
C6007	ECJ1XC1H820J	50V 82P	1	ECJ1VC1H820J
C6008	ECJ1VC1H471J	50V 470P	1	
C6009-11	ECJ1VF1H103Z	50V 0.01U	3	
C6013	ECJ1VF1A105Z	10V 1U	1	
C6014	ECJ1VB1H102K	50V 1000P	1	
C6015	ECJ1VB1C333K	16V 0.033U	1	
C6016	ECJ1VB1H102K	50V 1000P	1	
C6017	ECJ1VC1H561J	50V 560P	1	
C6020	ECJ1VB1H102K	50V 1000P	1	
C6101	ECJ2XF1H104Z	50V 0.1U	1	
C6103	ECJ1VF1H103Z	50V 0.01U	1	
C6111	ECJ1VF1C104Z	16V 0.1U	1	
C6112,13	ECJ1VC1H120J	50V 12P	2	
C6302	ECJ1VF1H103Z	50V 0.01U	1	
C6303	ECEA0JKA470	6.3V 47U	1	
C6308	ECEA0JKA470	6.3V 47U	1	
C7301	F2A1H2R2A234	50V 2.2U	1	
C7302	ECJ1VB1C333K	16V 0.033U	1	
C7303	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C7304	ECJ1VB1E223K	25V 0.022U	1	
C7305	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C7306	F2A1H3R3A234	50V 3.3U	1	
C7307	F2A1HR33A234	50V 33U	1	
C7308	F2A1V100A184	35V 10U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7309	ECJ1VF1C334Z	16V 0.33U	1	
C7310	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C7311	ECJ1VB1A224K	10V 0.22U	1	
C7312	ECEA0JKA470	6.3V 47U	1	
C7313	ECJ1VF1H103Z	50V 0.01U	1	
C7314	ECJ1VB1H102K	50V 1000P	1	
C7315	ECEA1HKA4R7	50V 4.7U	1	
C7316,17	F2A1H2R2A234	50V 2.2U	2	
C7318,19	ECJ1VB1E223K	25V 0.022U	2	
C7320	F2A1H2R2A234	50V 2.2U	1	
C7401	F2A1H1R0A234	50V 1U	1	
C7405	ECEA0JKA470	6.3V 47U	1	
C7406,07	F2A1V100A184	35V 10U	2	
C7409	ECJ1VF1H103Z	50V 0.01U	1	
C7417	ECJ1VB0J105K	6.3V 1U	1	
C7418	ECJ1VF1C104Z	16V 0.1U	1	
C7420	ECJ2YB1A105K	10V 1U	1	
C7425	ECJ1VF1H103Z	50V 0.01U	1	
C7426	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C7428	ECEA0JKA470	6.3V 47U	1	
C7752	ECEA0JKS331	6.3V 330U	1	
C7901	ECJ1VF1H103Z	50V 0.01U	1	
C7902	F2A1H100A146	50V 10U	1	
C7903	ECJ1VF1H104Z	50V 0.1U	1	
C7904	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C7905	F2A1C221A019	16V 220U	1	
C7906	ECQB1H473JF3	50V 0.047U	1	
C7907	F2A1A1010072	10V 100U	1	
C7908	ECQB1H103JZ	50V 0.01U	1	
C7909,10	F2A1H5600009	50V 56U	2	
D1341	MAZ4130NLF	DIODE	1	
D1351	MAZ4056NHF	DIODE	1	
D1501	B3EA00000072	LED	1	
D2001,02	1SS254	DIODE	2	B0AAED000003
D2501	ERA15-02	DIODE	1	B0EAKM000016
D2502	MAZ4160NMF	DIODE	1	
D3701	MA3Z142D0RG	DIODE	1	MA3Z142D0LG
D3901	1SS355	DIODE	1	B0ACCK000005
D3903	1SS355	DIODE	1	B0ACCK000005
D4501	1SS254	DIODE	1	B0AAED000003
D6306	MAZ4056NHF	DIODE	1	
D7402	MA4300N-M	DIODE	1	MAZ4300NM
D7751	B0JACE000001	DIODE	1	
D7752	MA2C70000F	DIODE	1	MA2C700
D7753,54	1SS254	DIODE	2	B0AAED000003
D7901	MAZ4220NMF	DIODE	1	
D7902	B0AAGM000003	DIODE	1	B0HAGM000001
D7903	B0JAME000025	DIODE	1	⚠
D7904,05	MA2C18500E	DIODE	2	
D7906	MA4300N-M	DIODE	1	MAZ4300NM
FL4562	EFCT4R5MS5W	FILTER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC1511,12	B3NAA0000073	IC	2	
IC2501	C1AB00001767	IC	1	
IC3001	C1AB00001838	IC	1	
IC3002	C0CBCDD00007	IC	1	
IC3701	C1AB00001979	IC	1	
IC3901	C1AB00001935	IC	1	
IC3903	C1AB00001870	IC	1	
IC4301	C0JBAR000285	IC	1	
IC4302	NJM4558M	IC	1	C0ABBB000044
IC4501	AN3656NFBPBV	IC	1	
IC6001	C2CBJG000368	IC	1	
IC6201	C0EBH0000172	IC	1	
IC6301	C0CBCDC00020	IC	1	
IC7301	AN5832SA-E1V	IC	1	
IC7401	C0CBCDD00006	IC	1	
IC7403	C0BBBB000006	IC	1	
IP6301	K5H2022A0011	IC PROTECTOR	1	⚠
J1	VEE0U97	EARTH WIRE	1	
JK3901	K1U412B00002	JACK,L1	1	
JK3902	K1U714B00001	JACK,VHS/DVD OUT	1	
JK3904	K1U407B00003	JACK,VHS/DVD OUT	1	
K3006	ERJ3GEY0R00V	1/10W 0	1	
K3010	ERJ3GEY0R00V	1/10W 0	1	
K3016	ERJ3GEY0R00V	1/10W 0	1	
K3023	ERJ3GEY0R00V	1/10W 0	1	
K3031	ERJ3GEY0R00V	1/10W 0	1	
K3701	ERJ3GEY0R00V	1/10W 0	1	
K4506	ERJ3GEY0R00V	1/10W 0	1	
K6004	ERJ3GEY0R00V	1/10W 0	1	
K6606	ERJ3GEY0R00V	1/10W 0	1	
K7408	ERJ3GEY0R00V	1/10W 0	1	
K7410	ERJ3GEY0R00V	1/10W 0	1	
L3002	VLQ0599J271	COIL 270UH	1	G0C271JA0026
L3003	VLQ0599J270	COIL 27UH	1	G0C270JA0026
L3004	VLQ0599J680	COIL 68UH	1	G0C680JA0026
L3005	VLQ0599J270	COIL 27UH	1	G0C270JA0026
L3006	G1C120J00001	COIL	1	
L3701	ELESE220KA	COIL 22UH	1	
L3702,03	G0C220JA0019	COIL 22UH	2	
L4061	ELESN221KA	COIL	1	
L4501	G0C1R2J00004	COIL	1	
L4502	VLQ0599J391T	COIL 390UH	1	G0C391JA0019
L5001	VLQ0599J680	COIL 68UH	1	G0C680JA0026
L6001	VLQ0599J5R6T	COIL 5.6UH	1	G0C5R6JA0019
L6004	VLQ0599J1R5	COIL 1.5UH	1	G0C1R5JA0026
L7901	ELELN101KA	COIL	1	
L7902	G0C220JA0019	COIL 22UH	1	
LB3704-06	J0JCC0000103	COIL	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB3901	J0JCC0000103	COIL	1	
LB3903	J0JCC0000103	COIL	1	
LB3905	J0JCC0000103	COIL	1	
LB3907,08	J0JCC0000103	COIL	2	
LB3911-18	J0JCC0000103	COIL	8	
LB7402	J0JBC0000015	COIL	1	
LB7403	J0JHC0000032	COIL	1	
LB7408	ERJ3GEY0R00V	1/10W 0	1	
LB7410	J0JHC0000032	COIL	1	
LB7411	ERJ3GEY0R00V	1/10W 0	1	
LB7901	J0JKB0000028	COIL	1	J0JKB0000027
P1531	K1KA02A00375	CONNECTOR(2P)	1	
P2501	VJS3537E007G	CONNECTOR(7P)	1	K1MN07A00019
P2571	K1KA08A00290	CONNECTOR(8P)	1	
P3001	VJS3537A009G	CONNECTOR(FEMALE)9P	1	K1MN09A00012
P4001	K1MZ02A00003	CONNECTOR(2P)	1	
P4002	VJS3537A006G	CONNECTOR(FEMALE)6P	1	K1MN06A00034
P4501	VJP3186A018W	CONNECTOR(MALE)18P	1	K1KA18A00046
P4502	VJP3043G007W	CONNECTOR(MALE)7P	1	K1KA07A00085
P4503	VJP3186A018W	CONNECTOR(MALE)18P	1	K1KA18A00046
P6001	K1KB13A00020	CONNECTOR(13P)	1	
P6002,03	VJS4357A019B	CONNECTOR(19P)	2	
P6005	K1KB07A00019	CONNECTOR(7P)	1	
P6601	K1KB08B00043	CONNECTOR(8P)	1	
PS33001	K1KB12B00040	CONNECTOR(FEMALE)12P	1	
Q1341	B1AAGD000006	TRANSISTOR	1	
Q1351	2SD1819AWL	TRANSISTOR	1	
Q1352	B1AAGD000006	TRANSISTOR	1	
Q1353	2SD1819AWL	TRANSISTOR	1	
Q1501,02	PNB2302M01VT	TRANSISTOR	2	
Q3001	2SD1819AWL	TRANSISTOR	1	
Q3004	2SD1819AWL	TRANSISTOR	1	
Q3701,02	2SD132800L	TRANSISTOR	2	
Q3903	XN4601TX	IC	1	XN0460100L
Q4001	2SD1149	TRANSISTOR	1	
Q4002	2SD1819AWL	TRANSISTOR	1	
Q4081	B1AAGD000006	TRANSISTOR	1	
Q4084	2SB710AQRSTX	TRANSISTOR	1	2SB0710AWL
Q6305	2SD0601A	TRANSISTOR	1	
Q7401	2SB1218A	TRANSISTOR	1	
Q7901	2SD2177-S	TRANSISTOR	1	2SD21770SA
Q7902	2SD1819AWL	TRANSISTOR	1	
Q7903	2SD132800L	TRANSISTOR	1	
QR1351,52	UN5112	TRANSISTOR	2	UNR5112
QR3701	UNR511100L	TRANSISTOR	1	
QR3951	UN5113TW	TRANSISTOR	1	
QR3952,53	UNR521600L	TRANSISTOR	2	
QR4082	UNR221300L	TRANSISTOR	1	
QR4301	UN5213TX	TRANSISTOR	1	UNR521300L
QR4302,03	UN5215TX	TRANSISTOR	2	UNR521500L

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR4304	UN5113TW	TRANSISTOR	1	
QR4801	UNR511100L	TRANSISTOR	1	
QR7901	UNR511100L	TRANSISTOR	1	
R1341	ERDS2FJ103	1/4W 10K	1	
R1351	ERDS2FJ821	1/4W 820	1	
R1352,53	ERJ3GEYJ104	1/10W 100K	2	
R1501,02	ERJ3GEYJ273V	1/10W 27K	2	D0GB273JA002
R1503	ERDS2FJ151	1/4W 150	1	
R1511,12	ERJ3GEYJ273V	1/10W 27K	2	D0GB273JA002
R1513	ERJ6GEYJ121V	1/8W 120	1	D0GD121JA003
R2001	ERJ3GEYJ392V	1/10W 3.9K	1	
R2002	ERJ3GEYJ105V	1/10W 1M	1	
R2099	ERJ3GEYJ682V	1/10W 6.8K	1	D0GB682JA002
R2501	ERJ6GEYJ1R2V	1/8W 1.2	1	
R2502	ERJ6GEYJ1R5V	1/8W 1.5	1	
R2503	ERDS2FJ182	1/4W 1.8K	1	
R2514-16	ERJ3GEYJ221V	1/10W 220	3	
R2520	ERJ3GEYJ183V	1/10W 18K	1	D0GB183JA002
R2521	ERJ3GEYJ102V	1/10W 1K	1	
R2551,52	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R2561	ERJ3GEYJ102V	1/10W 1K	1	
R2562	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R2563	ERJ3GEYJ102V	1/10W 1K	1	
R2564,65	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R3001	ERJ3GEYJ152V	1/10W 1.5K	1	
R3002	ERJ3GEYJ622V	1/10W 6.2K	1	
R3009	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R3013	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3014	ERJ3GEYJ102V	1/10W 1K	1	
R3017	ERJ3GEYJ102V	1/10W 1K	1	
R3021	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R3022	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R3023	ERJ3GEYJ152V	1/10W 1.5K	1	
R3030	ERJ3GEYJ685	1/10W 6.8M	1	
R3031	ERJ3GEYJ331V	1/10W 330U	1	
R3032	ERJ3GEYJ392V	1/10W 3.9K	1	
R3035	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R3037	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3052,53	ERJ3GEYJ222V	1/10W 2.2K	2	D0GB222JA002
R3706-08	ERJ3EKF75R0	1/10W 75	3	
R3709,10	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R3711	ERJ3GEY0R00V	1/10W 0	1	
R3712	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3714	ERJ3RBD153	1/16W 15K	1	
R3715	ERJ3RBD104	1/16W 100K	1	
R3716,17	ERJ3GEYJ221V	1/10W 220	2	
R3718,19	ERJ3GEYJ330V	1/10W 33	2	D0GB330JA002
R3720	ERJ3GEYJ105V	1/10W 1M	1	
R3724	ERJ3EKF75R0	1/10W 75	1	
R3727	ERJ3GEYJ681V	1/10W 680	1	D0GB681JA002
R3728,29	ERJ3GEYJ272V	1/10W 2.7K	2	
R3730	ERJ3GEYJ681V	1/10W 680	1	D0GB681JA002
R3734,35	ERJ3GEY0R00V	1/10W 0	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3901	ERJ3EKF75R0	1/10W 75	1	
R3903	ERJ3GEYJ102V	1/10W 1K	1	
R3904,05	ERJ3EKF75R0	1/10W 75	2	
R3909	ERJ3EKF75R0	1/10W 75	1	
R3910	ERJ3GEYJ680	1/10W 68	1	ERJ3GEYJ680V
R3911,12	ERJ3EKF75R0	1/10W 75	2	
R3916	ERJ3GEYJ912V	1/10W 9.1K	1	
R3918,19	ERJ3GEYJ104	1/10W 100K	2	
R3926,27	MCR03PZHJ561	1/10W 560	2	
R3928	ERJ3GEYJ102V	1/10W 1K	1	
R3951	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R3952	ERJ3GEYJ221V	1/10W 220	1	
R3953	ERJ3GEYJ471V	1/10W 470	1	
R3954	ERJ3GEYJ221V	1/10W 220	1	
R3955-57	ERJ3GEYJ471V	1/10W 470	3	
R3961,62	ERJ3GEYJ471V	1/10W 470	2	
R4001	ERJ6GEYJ102V	1/8W 1K	1	
R4003	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R4004	ERJ3GEYJ271V	1/10W 270	1	
R4005	ERJ6GEYJ102V	1/8W 1K	1	
R4006	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R4007	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R4008	ERJ3GEYJ334V	1/10W 330K	1	
R4009	ERJ3GEYJ2R2V	1/10W 2.2	1	D0GB2R2JA002
R4011	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R4012	ERJ3GEYJ223V	1/10W 22K	1	D0GB223JA002
R4081	ERJ3GEYJ682V	1/10W 6.8K	1	D0GB682JA002
R4082	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R4086,87	ERJ3GEYJ222V	1/10W 2.2K	2	D0GB222JA002
R4301,02	ERJ3GEYJ102V	1/10W 1K	2	
R4303,04	ERJ3GEYJ104	1/10W 100K	2	
R4305,06	ERJ3GEYJ152V	1/10W 1.5K	2	
R4307,08	ERJ3GEYJ104	1/10W 100K	2	
R4309	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R4310,11	ERJ3GEYJ102V	1/10W 1K	2	
R4500	ERJ3GEYJ102V	1/10W 1K	1	
R4501	ERJ3GEYJ563V	1/10W 56K	1	
R4502,03	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R4505,06	ERJ3GEYJ622V	1/10W 6.2K	2	
R4507	ERJ3GEYJ102V	1/10W 1K	1	
R4508	ERJ3GEYJ472V	1/10W 4.7K	1	
R4509	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R4510	ERJ3GEYJ622V	1/10W 6.2K	1	
R4511	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R4512	ERJ3GEYJ622V	1/10W 6.2K	1	
R4515	ERJ3GEYJ563V	1/10W 56K	1	
R4518,19	ERJ3GEYJ753V	1/10W 75K	2	
R4520	ERJ3GEYJ472V	1/10W 4.7K	1	
R4521,22	ERJ3GEYJ511	1/10W 510	2	
R4525	ERJ3GEYJ102V	1/10W 1K	1	
R4529	ERJ3GEYJ681V	1/10W 680	1	D0GB681JA002
R4534	ERJ3GEYJ124V	1/10W 120K	1	D0GB124JA002
R4538	ERJ3GEYJ393V	1/10W 39K	1	D0GB393JA002
R4539,40	ERJ3GEYJ102V	1/10W 1K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4553	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R4557	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R4572	ERJ3GEY0R00V	1/10W 0	1	
R4601	ERJ3GEYJ243V	1/10W 24K	1	D0GB243JA002
R4602	ERJ3GEYJ682V	1/10W 6.8K	1	D0GB682JA002
R6001,02	ERJ3GEYJ102V	1/10W 1K	2	
R6003	ERJ3GEYJ223V	1/10W 22K	1	D0GB223JA002
R6004	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6006,07	ERJ3GEYJ183V	1/10W 18K	2	D0GB183JA002
R6008	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R6009,10	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R6011	ERJ3GEYJ183V	1/10W 18K	1	D0GB183JA002
R6012	ERJ3GEYJ471V	1/10W 470	1	
R6013	ERJ3GEYJ105V	1/10W 1M	1	
R6017	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R6019	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6023	ERJ3GEYJ181V	1/10W 180	1	
R6024	ERJ3GEYJ221V	1/10W 220	1	
R6026-28	ERJ3GEYJ103V	1/10W 10K	3	D0GB103JA002
R6104-09	ERJ3GEYJ221V	1/10W 220	6	
R6201	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R6309	ERJ3GEYJ272V	1/10W 2.7K	1	
R7301	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7302	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R7303	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7304,05	ERJ6GEYJ331V	1/8W 330	2	
R7306	ERJ3GEYJ184V	1/10W 180K	1	
R7307,08	ERJ3GEYJ331V	1/10W 330U	2	
R7403	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R7404	ERJ3GEYJ681V	1/10W 680	1	D0GB681JA002
R7407,08	J0JBC0000041	COIL	2	
R7411	ERJ3GEYJ133V	1/10W 13K	1	
R7412	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R7413	ERJ3GEYJ102V	1/10W 1K	1	
R7414	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R7416	ERDS2FJ102	1/4W 1K	1	
R7751	ERJ3GEYJ102V	1/10W 1K	1	
R7901	ERDS2FJ331	1/4W 330	1	
R7902	ERJ3GEYJ333V	1/10W 33K	1	D0GB333JA002
R7903	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R7904	ERJ3GEYJ472V	1/10W 4.7K	1	
R7905,06	ERJ3GEYJ223V	1/10W 22K	2	D0GB223JA002
R7907	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7909	ERJ3GEYJ393V	1/10W 39K	1	D0GB393JA002
R7910	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
S1531	K0C111A00003	SWITCH(SAFETY TAB)	1	
S1532	K0ZZ00000598	SWITCH(MODE)	1	
T4081	EQQ7QF027P	TRANSFORMER	1	⚠
T7901	ETS13TB159AP	TRANSFORMER	1	⚠
TU7401	ENG36716GF	TV TUNERS	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W701-13	ERJ3GEY0R00V	1/10W 0	13	
W714,15	ERJ6GEY0R00V	1/8W 0	2	
W716	ERJ3GEY0R00V	1/10W 0	1	
W717-19	ERJ6GEY0R00V	1/8W 0	3	
W720,21	ERJ3GEY0R00V	1/10W 0	2	
W722	ERJ6GEY0R00V	1/8W 0	1	
W723-26	ERJ3GEY0R00V	1/10W 0	4	
W727	ERJ6GEY0R00V	1/8W 0	1	
W728	ERJ3GEY0R00V	1/10W 0	1	
W730	ERJ3GEY0R00V	1/10W 0	1	
W731	ERJ6GEY0R00V	1/8W 0	1	
W732-42	ERJ3GEY0R00V	1/10W 0	11	
W743	ERJ6GEY0R00V	1/8W 0	1	
W744,45	ERJ3GEY0R00V	1/10W 0	2	
W746,47	ERJ6GEY0R00V	1/8W 0	2	
W748	ERJ3GEY0R00V	1/10W 0	1	
X3002	H0D357400067	OSCILLATOR	1	
X6001	H0D120500009	OSCILLATOR	1	
X6002	H0A327200064	CRYSTAL OSCILLATOR	1	
■	03	REP3717G		(DIGITAL P.C.B.)
C3401	ECJ1VB0J105K	6.3V 1U	1	
C3402	ECJ0EC1H220J	50V 22P	1	
C3403	ECJ0EB1A104K	10V 0.1U	1	
C3404,05	ECJ0EC1H220J	50V 22P	2	
C3406	ECJ0EB1A104K	10V 0.1U	1	
C3407,08	ECJ0EC1H100D	50V 10P	2	
C3410	ECJ0EB1C103K	16V 0.01U	1	
C3411	ECST0JX476R	6.3V 47U	1	
C3417-19	ECJ1VB0J105K	6.3V 1U	3	
C3420	ECJ0EB1C103K	16V 0.01U	1	
C3421	ECJ0EB1A104K	10V 0.1U	1	
C3422	ECJ0EB1C103K	16V 0.01U	1	
C3423-28	ECJ0EB1A104K	10V 0.1U	6	
C3429,30	ECJ2FB0J106K	6.3V 10U	2	F1J0J106A013
C3431	ECJ0EB1A104K	10V 0.1U	1	
C3432	ECJ1VB0J105K	6.3V 1U	1	
C3433	ECJ0EB1A104K	10V 0.1U	1	
C3435,36	ECJ0EB1A104K	10V 0.1U	2	
C3440	EEEHB0J101P	6.3V 100P	1	
C3441	ECJ0EB1A104K	10V 0.1U	1	
C4402	EEEHB1C100R	16V 10P	1	
C4403	ECJ0EF1C104Z	16V 0.1U	1	
C4404	EEEHB0J101P	6.3V 100P	1	
C4405,06	ECJ0EF1C104Z	16V 0.1U	2	
C4407	EEEHB1C100R	16V 10P	1	
C4408,09	ECJ0EF1C104Z	16V 0.1U	2	
C4410	F2H0J331A016	6.3V 330U	1	
C4411	ECJ0EF1C104Z	16V 0.1U	1	
C4412	EEEHB0J101P	6.3V 100P	1	
C4415	EEEHB0J470R	6.3V 47P	1	

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4416	ECJ0EF1C104Z	16V 0.1U	1	
C4417	ECST1AY106R	10V 10U	1	
C4418	ECJ0EF1C104Z	16V 0.1U	1	
C4421	ECJ0EB1E102K	25V 1000P	1	
C4423,24	ECJ0EB1E102K	25V 1000P	2	
C4426	ECJ0EF1C104Z	16V 0.1U	1	
C6001	ECJ0EF1C104Z	16V 0.1U	1	
C6002	ECJ2FB0J106K	6.3V 10U	1	F1J0J106A013
C6003	ECJ0EB1C103K	16V 0.01U	1	
C9001,02	ECJ0EC1H470J	50V 47P	2	
C50001	ECJ1VB0J105K	6.3V 1U	1	
C50002	EEEHB0J220R	6.3V 22P	1	
C50004,05	ECJ0EB1A104K	10V 0.1U	2	
D3401,02	MA3S132E0L	DIODE	2	
D4401	MA3Z142K0LG	DIODE	1	
FL3401,02	F1H0J4740004	FILTER	2	
FL3404	F1H0J4740004	FILTER	1	
FL3406,07	F1H0J4740004	FILTER	2	
FL3409-12	F1H0J4740004	FILTER	4	
FL3414-26	F1H0J4740004	FILTER	13	
FL3429	F1H0J4740004	FILTER	1	
FL3431	F1H0J4740004	FILTER	1	
FL3433-35	F1H0J4740004	FILTER	3	
FL4401,02	F1H0J4740004	FILTER	2	
FL6001-06	F1H0J4740004	FILTER	6	
FL6008-17	F1H0J4740004	FILTER	10	
FL6020-23	F1H0J4740004	FILTER	4	
FL6701-03	F1H0J4740004	FILTER	3	
FL50001-06	F1H0J4740004	FILTER	6	
FP3401	K1MN40A00022	CONNECTOR(40P)	1	
IC3401	AN13310B-VB	IC	1	
IC3402	C3ABRG000036	IC	1	
IC3404	MN85573R	IC	1	
IC3406	C1DB00001110	IC	1	
IC3408	C3ABPJ000048	IC	1	
IC3409	C0DBZGC00066	IC	1	
IC4402	C0FBBK000035	IC	1	
IC4403	C0JBAD000107	IC	1	
IC4404	C0CBCBD00002	IC	1	
IC4406	C0FBAK000008	IC	1	
IC6001	MN2DS0011-HR	IC	1	
IC6002	C0EBE0000130	IC	1	
IC6003	C3CBLD000088	IC	1	
IC6004	74LVC244APWL	IC	1	C0JBAZ001466
IC6005	C3ABQG000068	IC	1	
IC6701	C1ZBZ0002429	IC	1	
IC6702	REP3717G	DIGITAL P.C.B.	1	
IC50001,02	C3ABPG000133	IC	2	
LB3404,05	J0JHC0000032	COIL	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB3408,09	J0JHC0000032	COIL	2	
LB4401	J0JGC0000020	COIL	1	
LB4402	J0JHC0000032	COIL	1	
LB4403,04	J0JGC0000020	COIL	2	
LB6001,02	J0JHC0000032	COIL	2	
LB9001,02	J0JHC0000032	COIL	2	
LB9006,07	J0JCC0000103	COIL	2	
LB9008	J0JHC0000045	COIL	1	
LB9009	J0JHC0000046	COIL	1	
LB50001-05	J0JHC0000032	COIL	5	
P6002	K1KA06A00394	CONNECTOR(6P)	1	
P9001	K1KB88A00002	CONNECTOR(88P)	1	
Q6001,02	B1ABCF000114	TRANSISTOR	2	
Q6701-05	B1ABCF000114	TRANSISTOR	5	
Q50001-05	B1ADCF000081	TRANSISTOR	5	
QR3401	UNR521L00L	TRANSISTOR	1	
R3405	ERJ2GEJ103	1/16W 10K	1	
R3407	ERJ2GE0R00X	1/16W 0	1	
R3409	ERJ2GE0R00X	1/16W 0	1	
R3410,11	ERJ2GEJ101	1/16W 100	2	
R3412	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R3414	ERJ2GEJ330X	1/16W 33	1	
R3416	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X
R3417,18	ERJ2GEJ103	1/16W 10K	2	
R3419-23	ERJ2GEJ220X	1/16W 22	5	ERJ2RMJ220X
R3427	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R3430	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R3440	ERJ2GEJ103	1/16W 10K	1	
R3442	ERJ2GEJ103	1/16W 10K	1	
R3443-45	ERJ2GE0R00X	1/16W 0	3	
R3447	ERJ2RHD682	1/16W 6.8K	1	
R3448	ERJ2GEJ562X	1/16W 5.6K	1	
R3449	ERJ2RHD682	1/16W 6.8K	1	
R3450	ERJ2GEJ104	1/16W 100K	1	
R3451	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R3452	ERJ2GE0R00X	1/16W 0	1	
R3453	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R3454	ERJ2GEJ390X	1/16W 39	1	ERJ2RMJ390X
R3455,56	ERJ2GEJ220X	1/16W 22	2	ERJ2RMJ220X
R3457	ERJ2GE0R00X	1/16W 0	1	
R3460-62	ERJ2GEJ470	1/16W 47	3	
R3463	ERJ2GEJ820X	1/16W 82	1	
R3464	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R3465	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R3466	ERJ2GEJ820X	1/16W 82	1	
R3467	ERJ2GEJ562X	1/16W 5.6K	1	
R3468	ERJ2GEJ103	1/16W 10K	1	
R3470	ERJ2GEJ103	1/16W 10K	1	
R3471	ERJ2GEJ330X	1/16W 33	1	
R3472,73	ERJ2GEJ220X	1/16W 22	2	ERJ2RMJ220X

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3476	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R4402-06	ERJ2GE0R00X	1/16W 0	5	
R4408	ERJ3GEY0R00V	1/10W 0	1	
R4413-15	ERJ3GEY0R00V	1/10W 0	3	
R4418	ERJ2GEJ221	1/16W 220	1	
R4419-22	ERJ2GE0R00X	1/16W 0	4	
R4425	ERJ2GEJ562X	1/16W 5.6K	1	
R4426-28	ERJ2GE0R00X	1/16W 0	3	
R6001	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X
R6002	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R6003	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R6004	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X
R6005	ERJ2GEJ103	1/16W 10K	1	
R6006	ERJ2GEJ153	1/16W 15K	1	
R6007	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X
R6008	ERJ2GEJ103	1/16W 10K	1	
R6009,10	ERJ2GEJ330X	1/16W 33	2	
R6013	ERJ2GEJ103	1/16W 10K	1	
R6018,19	ERJ2GEJ220X	1/16W 22	2	ERJ2RMJ220X
R6020	ERJ2GE0R00X	1/16W 0	1	
R6021,22	ERJ2GEJ470	1/16W 47	2	
R6023	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R6028	ERJ2GEJ470	1/16W 47	1	
R6029	ERJ2GEJ103	1/16W 10K	1	
R6031	ERJ2GEJ470	1/16W 47	1	
R6035	ERJ2GEJ470	1/16W 47	1	
R6036	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R6037	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X
R6038	ERJ2GEJ103	1/16W 10K	1	
R6040	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R6702-04	ERJ2GEJ470	1/16W 47	3	
R6706,07	ERJ2GEJ470	1/16W 47	2	
R6709,10	ERJ2GEJ332X	1/16W 3.3K	2	ERJ2RMJ332X
R6711,12	ERJ2GEJ470	1/16W 47	2	
R6713	ERJ2GEJ103	1/16W 10K	1	
R6714	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X
R6715	ERJ2GEJ470	1/16W 47	1	
R6718	ERJ2GE0R00X	1/16W 0	1	
R6720-28	ERJ2GEJ470	1/16W 47	9	
R6729	ERJ2GEJ104	1/16W 100K	1	
R6730	ERJ2GEJ103	1/16W 10K	1	
R6731	ERJ2GEJ222X	1/16W 22K	1	ERJ2RMJ222X
R6733	ERJ2GEJ103	1/16W 10K	1	
R6735	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X
R6737,38	ERJ2GEJ470	1/16W 47	2	
R6739	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R6741	ERJ2GEJ103	1/16W 10K	1	
R6742	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R6743,44	ERJ2GEJ103	1/16W 10K	2	
R6745-51	ERJ2GEJ470	1/16W 47	7	
R6752	ERJ2GEJ101	1/16W 100	1	
R6753-56	ERJ2GEJ470	1/16W 47	4	
R50001	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R50002	ERJ2GE0R00X	1/16W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R50003	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R50004	ERJ2GE0R00X	1/16W 0	1	
R50005	ERJ2GEJ330X	1/16W 33	1	
R50006,07	ERJ2GEJ470	1/16W 47	2	
R50008	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R50009	ERJ2GEJ103	1/16W 10K	1	
R50010	ERJ2RHD332	1/16W 3.3K	1	
R50011	ERJ2RHD223X	1/16W 22K	1	
R50012,13	ERJ2GE0R00X	1/16W 0	2	
R50015	ERJ2RHD333	1/16W 33K	1	
R50016	ERJ2RHD152	1/16W 1.5K	1	
R50017	ERJ2RHD153	1/16W 15K	1	
R50018	ERJ3RBD151	1/16W 150	1	
R50019	ERJ2GEJ330X	1/16W 33	1	
R50020	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R50021	ERJ3RED820	1/16W 82	1	
R50022	ERJ2GEJ330X	1/16W 33	1	
R50023	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R50024	ERJ3RED820	1/16W 82	1	
R50025	ERJ2GEJ330X	1/16W 33	1	
R50026	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R50027	ERJ3RBD151	1/16W 150	1	
R50028	ERJ2GEJ330X	1/16W 33	1	
R50029	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R50030	ERJ3RED330	1/16W 33	1	
R50031	ERJ3RBD151	1/16W 150	1	
R50032	ERJ2GEJ330X	1/16W 33	1	
R50033	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R50034,35	ERJ3RED220	1/16W 22	2	
RX3401-16	D1H82204A024	RESISTOR-RESISTOR	16	
RX3419-26	D1H82204A024	RESISTOR-RESISTOR	8	
RX3427-32	D1H81034A024	RESISTOR-RESISTOR	6	
RX3433-44	D1H82204A024	RESISTOR-RESISTOR	12	
RX6001	D1H81034A024	RESISTOR-RESISTOR	1	
RX6005,06	D1H83304A024	RESISTOR-RESISTOR	2	
RX6009-26	D1H83304A024	RESISTOR-RESISTOR	18	
RX6027-32	D1H84704A024	RESISTOR-RESISTOR	6	
RX6033,34	D1H83324A013	RESISTOR-RESISTOR	2	
RX6035,36	D1H83334A024	RESISTOR-RESISTOR	2	
RX6037	D1H81034A024	RESISTOR-RESISTOR	1	
RX6038	D1H83304A024	RESISTOR-RESISTOR	1	
RX6039-42	D1H84704A024	RESISTOR-RESISTOR	4	
RX6043	D1H81034A024	RESISTOR-RESISTOR	1	
RX6044	D1H83334A024	RESISTOR-RESISTOR	1	
RX6706	D1H84704A024	RESISTOR-RESISTOR	1	
RX6708	D1H84704A024	RESISTOR-RESISTOR	1	
RX6711,12	D1H83324A013	RESISTOR-RESISTOR	2	
RX6716	D1H84704A024	RESISTOR-RESISTOR	1	
RX6717-19	D1H83334A024	RESISTOR-RESISTOR	3	
RX6720,21	D1H83324A013	RESISTOR-RESISTOR	2	
RX6724	D1H84704A024	RESISTOR-RESISTOR	1	
RX6726-28	D1H84704A024	RESISTOR-RESISTOR	3	
RX6731-34	D1H84704A024	RESISTOR-RESISTOR	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX6735	D1H82224A024	RESISTOR-RESISTOR	1	
RX6736	D1H81034A024	RESISTOR-RESISTOR	1	
RX6737	D1H84724A024	RESISTOR-RESISTOR	1	
RX6738	D1H83334A024	RESISTOR-RESISTOR	1	
RX50001-16	D1H84704A024	RESISTOR-RESISTOR	16	
X3401	H0J270500069	CRYSTAL OSCILLATOR	1	
■	04	VEP03G66B		(I/O P.C.B.)
C43921	ECJ1VF1C104Z	16V 0.1U	1	
C43922	ECJ1VF1H103Z	50V 0.01U	1	
C43971	F2A1V100A184	35V 10U	1	
C43973	F2A1V100A184	35V 10U	1	
C43974-76	ECJ1VF1H103Z	50V 0.01U	3	
C44003-06	F2A1H1R0A236	50V 1U	4	
C44011	ECJ1VB1H103K	50V 0.01U	1	
C44013,14	F2A1H1R0A236	50V 1U	2	
C44016	F2A1C221A019	16V 220U	1	
C44017	ECJ1VC1H470J	50V 47P	1	
C44019	ECJ1VC1H470J	50V 47P	1	
C44022	ECJ1VF1C104Z	16V 0.1U	1	
C44023	F2A1C471A236	16V 470U	1	
C44024,25	F2A1E470A205	25V 47U	2	
C44026,27	F2A1H1R0A236	50V 1U	2	
C44036	F2A1C4700011	16V 47U	1	
C44038	F2A1C4700011	16V 47U	1	
C44043	ECJ1VF1C104Z	16V 0.1U	1	
C44045,46	ECJ1VF1C104Z	16V 0.1U	2	
C44047	ECQV1H104JL	50V 0.1U	1	
C44049	F2A0J471A247	6.3V 470U	1	
C44050	ECQV1H104JL	50V 0.1U	1	
C44051	ECJ1VF1C104Z	16V 0.1U	1	
C44052	F2A1C471A236	16V 470U	1	
IC43904,05	C0JBAR000285	IC	2	
IC44001	C1AB00001920	IC	1	
IC44004	C0CBCDC00026	IC	1	
IC44005	C0CBCDC00027	IC	1	
PS43001	VJS3186B018	CONNECTOR(FEMALE)18P	1	K1KB18B00016
PS43002	VJS3043F007W	CONNECTOR(FEMALE)7P	1	K1KB07B00014
PS43003	VJS3186B018	CONNECTOR(FEMALE)18P	1	K1KB18B00016
Q43971	XN6501TX	TRANSISTOR	1	XN0650100L
Q43972	XN4601TX	IC	1	XN0460100L
R43917,18	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R43920	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R43971	ERJ3GEYJ333V	1/10W 33K	1	D0GB333JA002
R43972	ERJ3GEYJ223V	1/10W 22K	1	D0GB223JA002
R43973	ERJ3GEYJ102V	1/10W 1K	1	
R43974,75	ERJ3GEYJ471V	1/10W 470	2	
R43976	ERJ3GEYJ102V	1/10W 1K	1	

R43970	ERJ3GEYJ102V	1/16W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R43977	ERJ3GEYJ223V	1/10W 22K	1	D0GB223JA002
R43978	ERJ3GEYJ333V	1/10W 33K	1	D0GB333JA002
R43979	ERJ3GEYJ102V	1/10W 1K	1	
R43980	ERJ3GEYJ471V	1/10W 470	1	
R43981	ERJ3GEYJ681V	1/10W 680	1	D0GB681JA002
R44005,06	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R44011,12	ERJ3GEYJ102V	1/10W 1K	2	
R44013,14	ERJ3GEY0R00V	1/10W 0	2	
R44015,16	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R44017,18	ERJ3GEY0R00V	1/10W 0	2	
R44024,25	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R44027	JAR0816P123D	1/16W 12K	1	D0HB123ZA002
R44029	JAR0816P123D	1/16W 12K	1	D0HB123ZA002
R44031,32	ERJ3GEYJ102V	1/10W 1K	2	
R44039	ERJ3GEY0R00V	1/10W 0	1	
R44042	ERJ3GEY0R00V	1/10W 0	1	
R44059,60	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R44074,75	D0HB243ZA002	1/16W 24K	2	
W500,01	ERJ3GEY0R00V	1/10W 0	2	
ZB44001	VKC0295	PCB HOLDER	1	
■	05	VEP09133A		(DIGITAL I/F P.C.B.)
C11120	ECQU2A223MLC	0.022U	1	⚠
C11122,23	ECKWNA471MBV	470P	2	⚠
C11124	ECKWNA102MEV	1000P	1	⚠
C11126	ECKWNA101MBV	100P	1	⚠
C11127	ECQU2A683MLC	0.068U	1	⚠
C11128	ECKWNA101MBV	100P	1	⚠
C11141,42	EEUED2E101UE	250V 100U	2	
C11150	EEUFM1V680	35V 68U	1	
C11151	ECKW3A472KRP	1KV 4700P	1	
C11152	ECJ2XC1H101J	16V 100P	1	
C11153	ECJ2VB1H103K	50V 0.01U	1	
C11154	ECJ2XB1H102K	50V 1000P	1	ECJ2VB1H102K
C11200	ECJ2VB1E104K	25V 0.1U	1	
C11201	ECJ2VB1E473K	25V 0.047U	1	
C11270,71	F2A1C1520011	16V 1500U	2	
C11272	EEUFM1C471L	16V 470U	1	
C11280	ECA1EHG471	25V 470U	1	
C11281	F2A1E2210050	25V 220U	1	
C11401	EEUFM1C471L	16V 470U	1	
C11403	ECJ2XF1H104Z	50V 0.1U	1	
C11404	ECJ2XB1H102K	50V 1000P	1	ECJ2VB1H102K
C11405	ECJ2VB1E104K	25V 0.1U	1	
C11406	ECJ2XB1H102K	50V 1000P	1	ECJ2VB1H102K
C11407	ECJ2VB1E473K	25V 0.047U	1	
C11408	ECJ2XB1H102K	50V 1000P	1	ECJ2VB1H102K
C11470	EEUFM1A102	10V 1000U	1	
C11471	ECA1AHG221	10V 220U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C11501	F2A1E2210050	25V 220U	1	
C11502	ECJ2XF1C105Z	16V 1U	1	
C11503	ECJ2VB1H103K	50V 0.01U	1	
C11505	ECJ2VB1H472K	25V 4700P	1	
C11506	ECJ2XB1H102K	50V 1000P	1	ECJ2VB1H102K
C11508	ECJ2XC1H331J	16V 330P	1	
C11570	F2A1A6810017	10V 680U	1	
C31001-04	ECJ1VB1H103K	50V 0.01U	4	
C31400	F2A1E2210050	25V 220U	1	
C31401,02	ECJ2XF1H104Z	50V 0.1U	2	
C31403	ECJ2VB1H103K	50V 0.01U	1	
C31404	ECJ2VC1H680J	50V 68P	1	
C31405	ECJ2VB1E104K	25V 0.1U	1	
C31406	F2A1A6810017	10V 680U	1	
C31407	F2A1E2210050	25V 220U	1	
C31408	ECJ2XF1C105Z	16V 1U	1	
C31409	ECJ2VB1H103K	50V 0.01U	1	
C31410	ECJ2XC1H331J	50V 330P	1	
C31411	ECJ2VB1H472K	25V 4700P	1	
C31412	ECJ2XB1H102K	50V 1000P	1	ECJ2VB1H102K
C31413	F2A1A6810017	10V 680U	1	
C31416	ECJ2VB1H472K	25V 4700P	1	
C31513	ECJ1VB1A105K	10V 1U	1	F1H1A105A028
C31514	ECJ1VB0J105K	6.3V 1U	1	
C31515	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C31516	ECJ1VB1A105K	10V 1U	1	F1H1A105A028
C31518	F2A1A470A388	10V 47U	1	
C31520	ECJ1VB1A105K	10V 1U	1	F1H1A105A028
C31521	ECJ1VB0J105K	6.3V 1U	1	
C31522	ECUX1H331KBV	50V 330P	1	
C31523	ECJ1VB1A105K	10V 1U	1	F1H1A105A028
C31524	F2A1A470A388	10V 47U	1	
C31527,28	ECJ1VB0J105K	6.3V 1U	2	
C31531	F2A1A470A388	10V 47U	1	
C31533,34	ECJ1VB0J105K	6.3V 1U	2	
C31537	F2A1A101A389	10V 100U	1	
C31909-12	ECJ1VB1H103K	50V 0.01U	4	
C33731	ECJ1VB0J105K	6.3V 1U	1	
C33734	ECJ1VB0J105K	6.3V 1U	1	
C33735	ECEA0JKN470	6.3V 47U	1	
C33738	ECJ1VB1H103K	50V 0.01U	1	
C33740	ECEA0JKN470	6.3V 47U	1	
C34028,29	F2A1C100A019	16V 10U	2	
C37546	ECJ1VF1C104Z	16V 0.1U	1	
C37563	ECJ1VC1H561J	50V 560P	1	
C37565	ECJ2YB0J475K	6.3V 4.7U	1	F1J0J475A008
C37566,67	ECJ1XB1C104K	16V 0.1U	2	ECJ1VB1C104K
C37569	ECJ1VF1C104Z	16V 0.1U	1	
C37579-82	ECJ1VC1H100C	50V 10P	4	
C37583	ECJ1VC1H101J	50V 100P	1	
C37584,85	ECJ1VC1H270J	50V 27P	2	
C37588	ECJ1VF1H103Z	50V 0.01U	1	
C37589	ECJ1VF1C104Z	16V 0.1U	1	
C37591	ECJ1VF1C104Z	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C37595	ECJ1VF1C104Z	16V 0.1U	1	
C37596	ECJ1VC1H470J	50V 47P	1	
C37597	ECJ1VB1H103K	50V 0.01U	1	
C37598	ECJ1VC1H470J	50V 47P	1	
C37599	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C37600	ECJ1VC1H470J	50V 47P	1	
C37601	ECJ1XB1C104K	16V 0.1U	1	ECJ1VB1C104K
C37602,03	ECJ1VF1H103Z	50V 0.01U	2	
C37604	ECJ1VF1C104Z	16V 0.1U	1	
C37607	ECJ1VF1C104Z	16V 0.1U	1	
C37609,10	ECJ1VF1H103Z	50V 0.01U	2	
C37626	ECJ1VF1H103Z	50V 0.01U	1	
C37636	ECJ1VF1A105Z	10V 1U	1	
C37639	ECJ1VF1C104Z	16V 0.1U	1	
C37651	F2A0J470A012	6.3V 47U	1	
C37652	ECJ1VF1C104Z	16V 0.1U	1	
C39701,02	ECJ1VF1C104Z	16V 0.1U	2	
D11110	ERZVA5V471	SURGE ABSORBER	1	⚠
D11141	B0EBKT000006	DIODE	1	
D11151	B0HAGM000006	DIODE	1	
D11152	MA8100M	DIODE	1	MAZ81000M
D11153	MA165TA5	DIODE	1	MA2C165001VT
D11155	MAZ73000BC	DIODE	1	
D11157	ERA22-06	DIODE	1	B0HAGR000001
D11158	MAZ73000BC	DIODE	1	
D11270	B0JBSG000010	DIODE	1	
D11280,81	B0JAMK000004	DIODE	2	
D11400	MA2Q73800L	DIODE	1	
D11401	MA2J11100L	DIODE	1	
D11500	MA2Q73800L	DIODE	1	
D31400,01	MA2Q73800L	DIODE	2	
D37509	B0JACE000001	DIODE	1	
D37512	VLQ0599J680	COIL 68UH	1	G0C680JA0026
F11101	K5D202BK0005	FUSE	1	⚠
IC11150	C0DACZH00004	IC	1	
IC11200	C0DAEMB00003	IC	1	
IC11400	C0DBAZH00013	IC	1	
IC11500	C0DAAJG00007	IC	1	
IC31400	C0DBAKG00005	IC	1	
IC31401	C0DAAJG00007	IC	1	
IC31505	C0CBCDD00008	IC	1	
IC31506	C0DBAHG00013	IC	1	
IC31507	C0CBCDD00006	IC	1	
IC31508	C0DBEGD00002	IC	1	
IC31509	C0DBEFG00003	IC	1	
IC31510	C0DBEGG00003	IC	1	
IC37501	C2CBJG000357	IC	1	
IC37505	C0EBE0000194	IC	1	
IC37506	C0ABBA000146	IC	1	
IC37508	C0EBE0000218	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IP11400	K5H3022A0013	IC PROTECTOR	1	⚠
IP11500	K5H3022A0013	IC PROTECTOR	1	⚠
IP31400,01	K5H2022A0011	IC PROTECTOR	2	⚠
K37503	ERJ3GEY0R00V	1/10W 0	1	
K39704	ERJ3GEY0R00V	1/10W 0	1	
L11120,21	G0B832L00001	COIL	2	⚠
L11270	G0A100H00011	COIL 10UH	1	
L11271	G0A220G00018	COIL 22UH	1	
L11280	G0A220G00018	COIL 22UH	1	
L11400	G0A100H00014	COIL 10UH	1	
L11401	G0A220ZA0030	COIL 22UH	1	
L11402	G0A100H00011	COIL 10UH	1	
L11500	G0A100H00014	COIL 10UH	1	
L11501	G0A470ZA0030	COIL 47UH	1	
L31001	G0A220G00018	COIL 22UH	1	
L31400	G0A220G00018	COIL 22UH	1	
L31401	G0A330ZA0030	COIL 33UH	1	
L31402	G0A470ZA0030	COIL 47UH	1	
LB11400,01	ERJ6GEY0R00V	1/8W 0	2	
LB11402-04	J0JHC0000012	COIL	3	
LB31001-07	J0JHC0000032	COIL	7	
LB31401	J0JHC0000012	COIL	1	
LB31902-04	J0JHC0000032	COIL	3	
LB34001-03	J0JCC0000103	COIL	3	
LB34004	ERJ3GEY0R00V	1/10W 0	1	
LB37401	J0JHC0000032	COIL	1	
LB37409	J0JHC0000032	COIL	1	
LB37411,12	J0JCC0000103	COIL	2	
LB37504	ERJ3GEY0R00V	1/10W 0	1	
LB37506,07	ERJ3GEY0R00V	1/10W 0	2	
LB37508	VLP0175	COIL	1	J0JCC0000060
LB37509	ERJ3GEY0R00V	1/10W 0	1	
P11101	K2AB2H000004	AC INLET	1	⚠
P11103	K1KA04A00192	CONNECTOR(4P)	1	
P31901	K1KA13A00074	CONNECTOR(13P)	1	
P31902,03	K1KA19A00007	CONNECTOR(19P)	2	
P31905	K1KA07A00083	CONNECTOR(7P)	1	
P37503	K1KA03A00173	CONNECTOR(3P)	1	
P39702	K1KA88A00003	CONNECTOR(88P)	1	
PP31903	K1KB08B00043	CONNECTOR(8P)	1	
PP31904	K1KB10B00045	CONNECTOR(FEMALE)10P	1	
Q11200	PC123ZY2	TRANSISTOR	1	B3PBA0000078 ⚠
Q11270	B1DHDD000022	TRANSISTOR	1	
Q31401	B1DHDD000022	TRANSISTOR	1	
Q37507	2SB1218A	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q37508	2SD1819AWL	TRANSISTOR	1	
Q37512	2SD0874A0L	TRANSISTOR	1	
QR11300,01	UNR221300L	TRANSISTOR	2	
QR31300	UNR221300L	TRANSISTOR	1	
QR31301	XN4213	TRANSISTOR	1	XN04213
QR34001,02	XN0421100L	TRANSISTOR	2	
QR37501	UN5113TW	TRANSISTOR	1	
QR37502	UN5212TX	TRANSISTOR	1	UNR521200L
R11150,51	ERJ6GEYJ470V	1/8W 47	2	
R11152	ERJ6GEYJ103V	1/8W 10K	1	
R11154	ERJ6GEYG162	1/8W 1.6K	1	
R11155	ERJ6GEYG470	1/8W 47	1	
R11156	ERJ6ENF1802	1/8W 18K	1	
R11157	ERJ6GEY0R00V	1/8W 0	1	
R11158	ERJ6GEYJ103V	1/8W 10K	1	
R11159	ERJ6GEY0R00V	1/8W 0	1	
R11200	ERJ6GEYJ821V	1/8W 820	1	
R11201	ERJ6GEYJ103V	1/8W 10K	1	
R11202	ERJ6GEY0R00V	1/8W 0	1	
R11204	ERJ6GEYG912	1/8W 9.1K	1	
R11206	ERJ6GEYG242	1/8W 2.4K	1	
R11209	ERJ6GEYJ102V	1/8W 1K	1	
R11210	ERJ6GEYJ562V	1/8W 5.6K	1	
R11211	ERJ6GEYG621V	1/8W 620	1	
R11270	ERJ6GEYJ472V	1/8W 4.7K	1	
R11400	ERJ6GEYJ470V	1/8W 47	1	
R11401	ERJ6RED134	1/10W 8.2K	1	
R11402	ERJ6GEYJ104V	1/8W 100K	1	
R11403	ERJ6GEYG105	1/8W 1M	1	
R11404	ERJ6RBB472	1/10W 4.7K	1	
R11405	ERJ6GEYJ3R3V	1/8W 3.3	1	D0GD3R3JA003
R11406	ERJ6RBD271	1/10W 270	1	
R11407	ERJ6RBD102	1/10W 1K	1	
R11408-10	D1BDR1800001	1/10W 18	3	
R11411	ERJ6RBD102	1/10W 1K	1	
R11412	ERJ6RBD271	1/10W 270	1	
R11413	ERJ6GEYJ103V	1/8W 10K	1	
R11414,15	ERJ6RBD222	1/10W 2.2K	2	
R11416	ERJ6RBD112	1/10W 1.1K	1	
R11501	ERJ6GEYJ104V	1/8W 100K	1	
R11502	ERJ6RBD512	1/10W 5.1K	1	
R11503	ERJ6RBD391	1/10W 390	1	
R11504	ERJ6RBD102	1/10W 1K	1	
R31401	D1BFR039A010	1/10W 39	1	
R31402	ERJ6GEY0R00V	1/8W 0	1	
R31403	ERJ6GEYJ103V	1/8W 10K	1	
R31404	ERJ6RBD123	1/10W 12K	1	
R31406	ERJ6GEYJ104V	1/8W 100K	1	
R31407	ERJ6RBD302	1/10W 3K	1	
R31409	ERJ6RBD102	1/10W 1K	1	
R31410	ERJ6RBD822V	1/10W 8.2K	1	
R31411	ERJ6ENF3300	1/8W 3.3K	1	ERJ6RBD331V

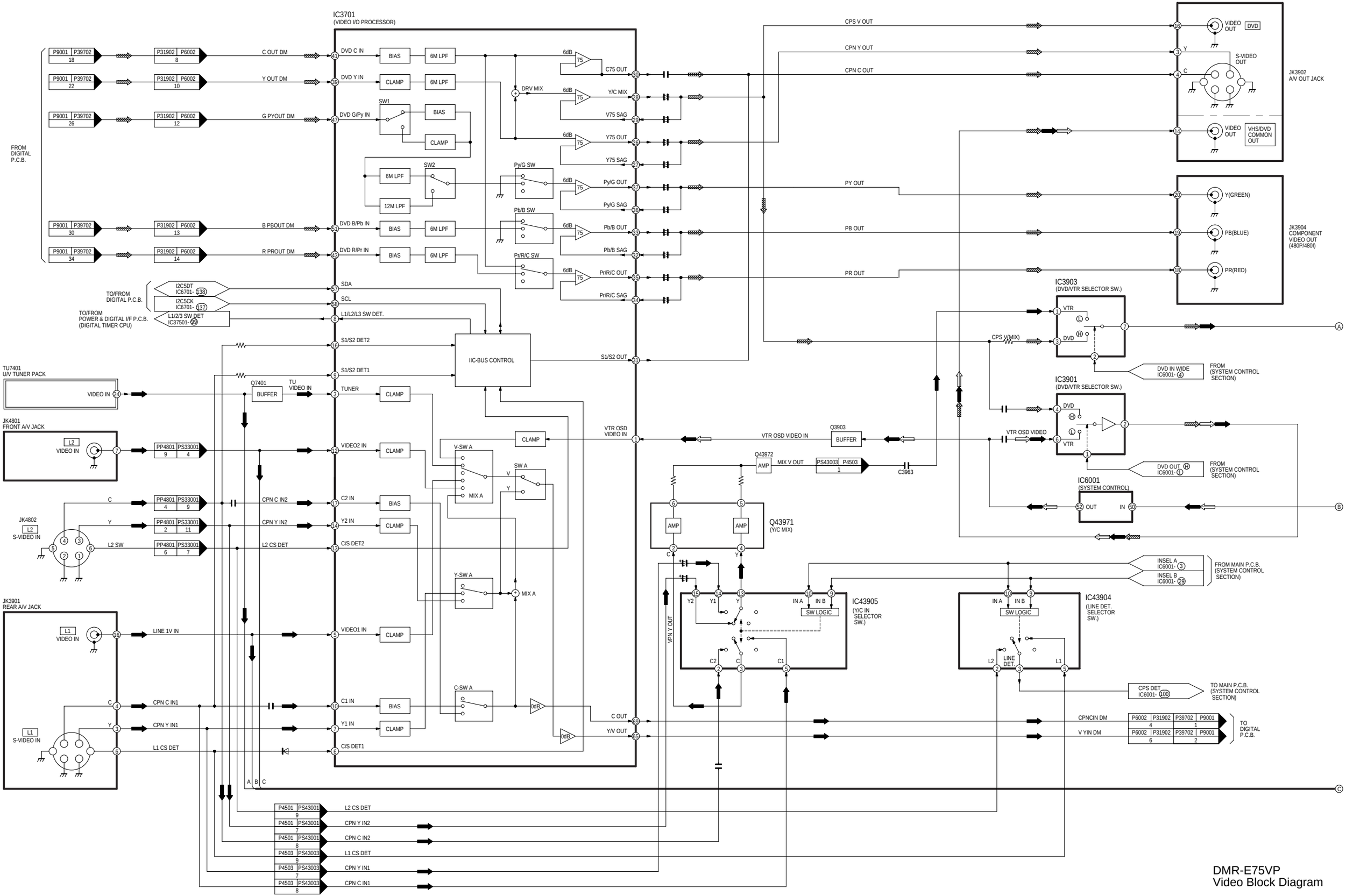
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R31412	ERJ6GEYJ513V	1/8W 51K	1	
R31504	ERDS2FJ271	1/4W 270	1	
R31506	ERDS2FJ271	1/4W 270	1	
R31507	ERJ3RED330	1/16W 33	1	
R31508	ERJ3RBD201	1/16W 200	1	
R31509	ERJ3RBD102V	1/16W 1K	1	
R31510	ERJ3RED220	1/16W 22	1	
R31511	ERJ3RBD182V	1/16W 1.8K	1	
R31512	ERJ3RBD202	1/16W 2K	1	
R34043,44	JAR0816P392D	1/16W 3900	2	D0HB392ZA002
R34045,46	JAR0816P821D	1/16W 820	2	D0HB821ZA002
R34047,48	JAR0816P562D	1/16W 5.6K	2	D0HB562ZA002
R34049,50	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R37501	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37505	ERJ3GEYJ471V	1/10W 470	1	
R37508	ERJ3GEYJ104	1/10W 100K	1	
R37519	ERJ3GEYJ102V	1/10W 1K	1	
R37520	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R37521	ERJ3GEYG152	1/10W 1.5K	1	
R37522	ERJ3GEYG562V	1/10W 5.6K	1	
R37523	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R37530-33	ERJ3GEYJ473V	1/10W 47K	4	D0GB473JA002
R37534-37	ERJ3GEYJ101	1/10W 100	4	D0GB101JA002
R37538	ERJ3GEYJ472V	1/10W 4.7K	1	
R37539	ERJ3GEY0R00V	1/10W 0	1	
R37540	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R37541	ERJ3GEY0R00V	1/10W 0	1	
R37542	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R37548	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R37549	ERJ3GEYJ511	1/10W 510	1	
R37550,51	ERJ3GEYJ202V	1/10W 2K	2	
R37552	ERJ3GEY0R00V	1/10W 0	1	
R37554	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37556	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37557	ERJ3GEY0R00V	1/10W 0	1	
R37558,59	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R37561	ERDS2TJ392	1/4W 3.9K	1	
R37562	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37569	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37571	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37575	ERJ3GEYJ104	1/10W 100K	1	
R37576-78	ERJ3GEYJ101	1/10W 100	3	D0GB101JA002
R37583,84	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R37585	ERJ3GEYJ223V	1/10W 22K	1	D0GB223JA002
R37596	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R37597	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R37600	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R37601	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R37602	ERJ3GEYJ821V	1/10W 820	1	
R37603	ERJ3GEYJ183V	1/10W 18K	1	D0GB183JA002
R37604-06	ERJ3GEYJ822V	1/10W 8.2K	3	D0GB822JA002
R37611-13	ERJ3GEYJ101	1/10W 100	3	D0GB101JA002
R37633	ERJ3GEYJ223V	1/10W 22K	1	D0GB223JA002
R37635	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R39701	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
T11150	G4D3A0000150	TRANSFORMER	1	⚠
W301	ERJ6GEY0R00V	1/8W 0	1	
W302-04	ERJ3GEY0R00V	1/10W 0	3	
W305	ERJ6GEY0R00V	1/8W 0	1	
W306,07	ERJ3GEY0R00V	1/10W 0	2	
W308	ERJ6GEY0R00V	1/8W 0	1	
W309,10	ERJ3GEY0R00V	1/10W 0	2	
W311-14	ERJ6GEY0R00V	1/8W 0	4	
W315	ERJ3GEY0R00V	1/10W 0	1	
W316	ERJ6GEY0R00V	1/8W 0	1	
W317-21	ERJ3GEY0R00V	1/10W 0	5	
W322	ERJ6GEY0R00V	1/8W 0	1	
X37501	VSX1043-T	CRYSTAL OSCILLATOR	1	H0D100500006
ZA11103,04	K3GD9BB00001	FUSE HOLDER	2	
ZA11150	VSC5603	HEAT SINK	1	
ZA11270	VSC5614	HEAT SINK	1	
ZB11104	VMX1636	SPACER(POWER)	1	
ZJ37401	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZJ37404-07	VJR0978	EARTH ANGLE	4	K9ZZ00000424
■	06	VEP07A74B		(FL DRIVE P.C.B.)
C7501	ECJ1VF1C104Z	16V 0.1U	1	
C7502	ECEA0JKA470	6.3V 47U	1	
C7505	ECJ1VF1A105Z	10V 1U	1	
C7525	ECJ1VC1H101J	50V 100P	1	
D7501	B3ABA0000402	DIODE	1	
D7507	B3AAA0000540	DIODE	1	
DP7501	A2BB00000133	FL DISPLAY TUBE	1	
IC7502	C0HBB0000033	IC	1	
L7501	G0C220JA0019	COIL 22UH	1	
LB7501,02	ERJ3GEY0R00V	1/10W 0	2	
PP7501	K1KA10B00176	CONNECTOR(10P)	1	
PP7502,03	K1KA08B00210	CONNECTOR(8P)	2	
Q7501	2SD1819AWL	TRANSISTOR	1	
QR7501	UN5211	TRANSISTOR	1	UNR5211
QR7510	UN5211	TRANSISTOR	1	UNR5211

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7501	ERJ3GEYJ122	1/10W 1.2K	1	
R7502	ERJ3GEYJ152V	1/10W 1.5K	1	
R7504	ERJ3GEYJ122	1/10W 1.2K	1	
R7505	ERJ3GEYJ273V	1/10W 27K	1	D0GB273JA002
R7506	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R7507	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R7508	ERJ6GEYJ221V	1/8W 220	1	
R7510	ERDS2FJ5R6	1/4W 5.6	1	
R7512	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7513	ERJ3GEYJ683V	1/10W 68K	1	D0GB683JA002
R7514	ERJ3GEY0R00V	1/10W 0	1	
R7515	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7526,27	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R7528	ERJ3GEYJ104	1/10W 100K	1	
R7539	ERJ6GEYJ221V	1/8W 220	1	
S7501	EVQ11G04M	SWITCH(OPEN/CLOSE)	1	
S7502	EVQ11G07K	SWITCH(TO DVD)	1	
S7503	EVQ11G07K	SWITCH(TO VHS)	1	
S7504	EVQ11G07K	SWITCH(REC)	1	
S7505	EVQ11G07K	SWITCH(CH UP)	1	
S7506	EVQ11G07K	SWITCH(CH DOWN)	1	
S7507	EVQ11G07K	SWITCH(PLAY)	1	
S7508	EVQ11G07K	SWITCH(STOP)	1	
W501-07	ERJ3GEY0R00V	1/10W 0	7	
■	07	VEP04868B		(FRONT JACK P.C.B.)
C4801	ECJ1VF1H103Z	50V 0.01U	1	
C4802	ECJ1VF1C104Z	16V 0.1U	1	
C4803,04	ECJ1VC1H101J	50V 100P	2	
C4805,06	ECJ1VB1H102K	50V 1000P	2	
C7801	ECJ1VF1C104Z	16V 0.1U	1	
IC7801	PNA4618M12VT	IC	1	
JK4801	K2HA307A0003	JACK,L2	1	
JK4802	K2HZ107A0001	JACK,S1 IN	1	
LB4801-03	J0JCC0000103	COIL	3	
PP4801	K1KA12B00129	CONNECTOR(12P)	1	
R4801-03	ERJ3EKF75R0	1/10W 75	3	
R4804	ERJ3GEYJ102V	1/10W 1K	1	
R4805,06	J0JCC0000103	COIL	2	
R7801	ERJ3GEYJ221V	1/10W 220	1	
R7802	ERJ3GEYJ182V	1/10W 1.8K	1	
R7803	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R7804	ERJ3GEYJ472V	1/10W 4.7K	1	
R7806	ERJ3GEYJ682V	1/10W 6.8K	1	D0GB682JA002
R7807	ERJ3GEYJ182V	1/10W 1.8K	1	
R7808	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002

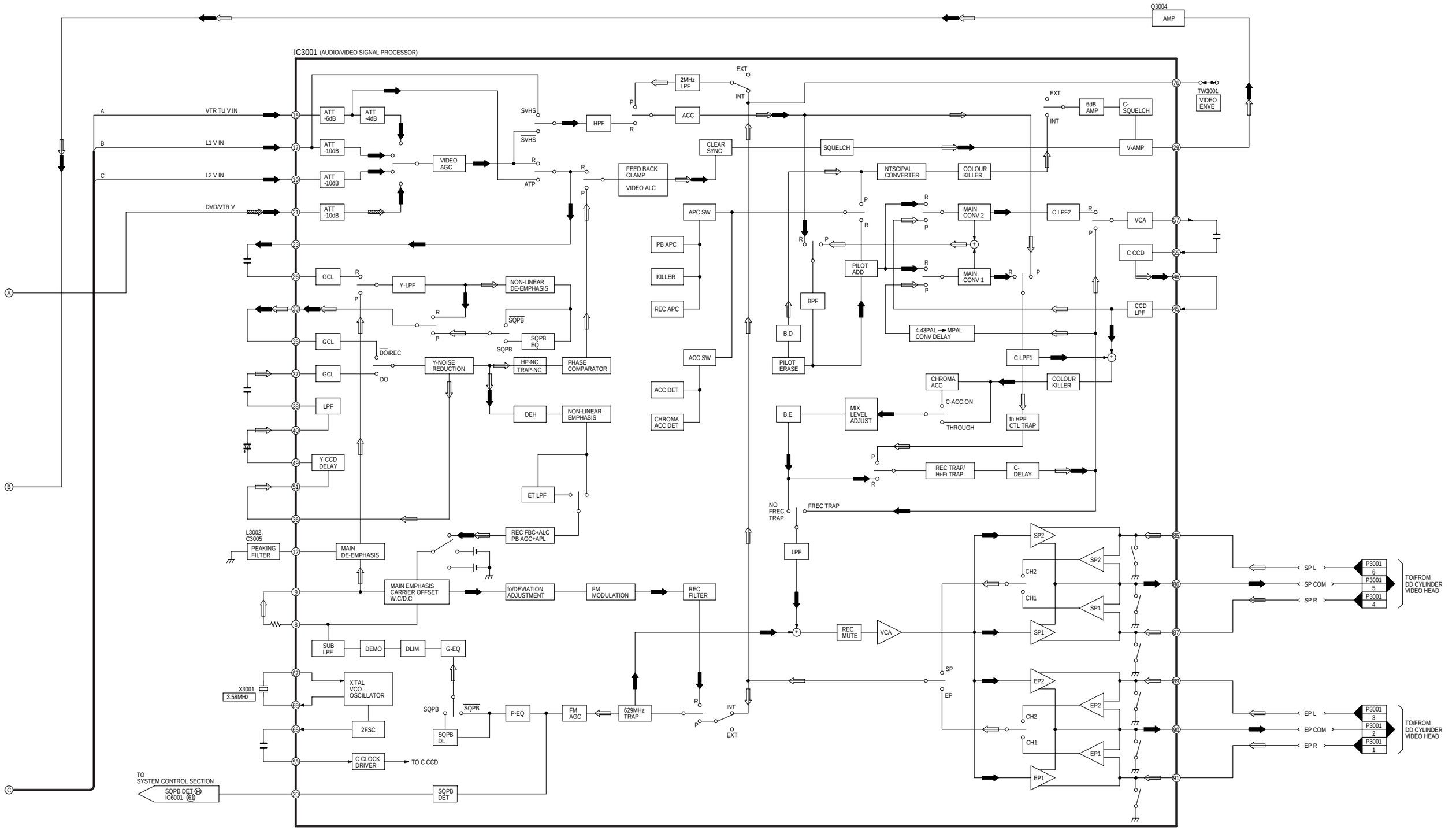
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7809	ERJ3GEYJ472V	1/10W 4.7K	1	
R7810	ERJ3GEYJ682V	1/10W 6.8K	1	D0GB682JA002
R7812	ERJ3GEYJ123V	1/10W 12K	1	
S7801	EVQ11G07K	SWITCH(CH UP)	1	
S7802	EVQ11G07K	SWITCH(CH DOWN)	1	
S7803	EVQ11G07K	SWITCH(SKIP-R)	1	
S7805	EVQ11G07K	SWITCH(FF)	1	
S7806	EVQ11G07K	SWITCH(POWER)	1	
S7807	EVQ11G07K	SWITCH(REC)	1	
S7808	EVQ11G07K	SWITCH(PLAY)	1	
S7809	EVQ11G07K	SWITCH(CH DOWN)	1	
S7810	EVQ11G07K	SWITCH(SKIP-F)	1	
S7812	EVQ11G07K	SWITCH(REW)	1	
S7813	EVQ11G07K	SWITCH(EJECT)	1	

26. Schematic Diagram for printing with A4 size



DMR-E75VP
Video Block Diagram

:DVD VIDEO EE SIGNAL :REC SIGNAL :PB SIGNAL

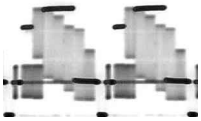


DMR-E75VP
Video Block Diagram

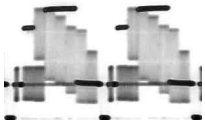
DMR-E75VP
Video Block Diagram

IC6001-18(TW2001) REC
5.0Vp-p (10msec.div.)

IC6001-19 PLAY
5.0Vp-p (5msec.div.)



IC6001-50 REC/PLAY
1.5Vp-p (20usec.div.)



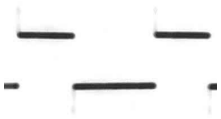
IC6001-52 REC/PLAY
1.5Vp-p (20usec.div.)

IC6001-79 FF/REW
5.0Vp-p (1msec.div.)

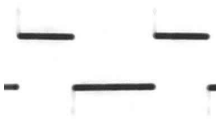
IC6001-80 FF/REW
5.0Vp-p (1msec.div.)

IC6001-86(TL2015) PLAY
0.8Vp-p (0.5msec.div.)

IC6001-90 REC
5.0Vp-p (10msec.div.)

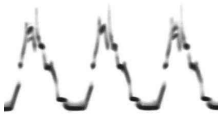


IC6001-94 REC
2.4Vp-p (10msec.div.)



IC6001-95 REC
2.4Vp-p (10msec.div.)

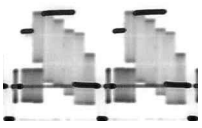
IC6001-97(TW2002) PLAY
4.4Vp-p (5msec.div.)



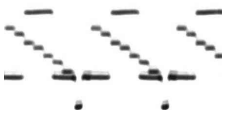
IC2501-22,23,25 PLAY
8.0Vp-p (2msec.div.)

IC3001-6 REC/PLAY
1.0Vp-p (2msec.div.)

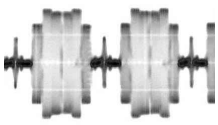
IC3001-19 REC
0.9Vp-p (20usec.div.)



IC3001-29 REC/PLAY
1.5Vp-p (20usec.div.)



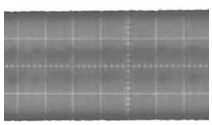
IC3001-36 PLAY
0.3Vp-p (20usec.div.)



IC3001-57 REC/PLAY
0.2Vp-p (20usec.div.)

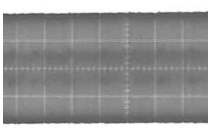
IC3001-67 PLAY
0.4Vp-p (0.5usec.div.)

IC3001-80 REC/PLAY
0.5Vp-p (10msec.div.)



IC3001-86 REC
1.5Vp-p (20usec.div.)

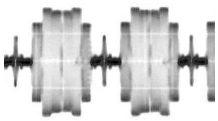
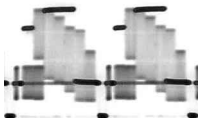
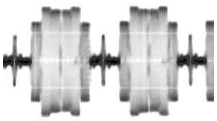
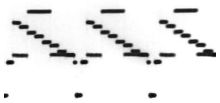
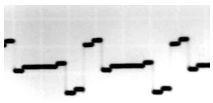
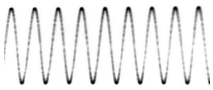
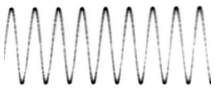
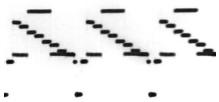
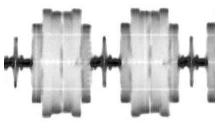
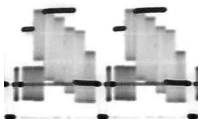
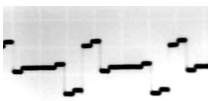
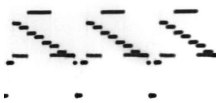
IC3001-98 REC
1.5Vp-p (5msec.div.)



IC4501-21(TW4501) REC
1.5Vp-p (20usec.div.)

IC4501-53 REC/PLAY
2.0Vp-p (0.5msec.div.)

IC4501-57 REC/PLAY
2.0Vp-p (0.5msec.div.)

 IC11150-2 STOP 0.2Vp-p (5usec.div)				
 T11150-3 STOP 30Vp-p (5usec.div)	 T11150-4 STOP 300Vp-p (5usec.div)	 T11150-6 STOP 10Vp-p (2msec.div)	 T11150-7 STOP 38Vp-p (5usec.div)	 T11150-8 STOP 32Vp-p (5usec.div)
 P9001-1 REC/PLAY 0.8Vp-p (20usec.div)	 P9001-2 REC/PLAY 0.8Vp-p (20usec.div)	 P9001-18 REC/PLAY 0.8Vp-p (20usec.div.)	 P9001-22 REC/PLAY 0.8Vp-p (20usec.div.)	 P9001-26 REC/PLAY 0.8Vp-p (20usec.div.)
 P9001-30 REC/PLAY 0.6Vp-p (20usec.div.)	 P9001-34 REC/PLAY 0.6Vp-p (20usec.div)	 P9001-48,50 REC/PLAY 0.8Vp-p (1msec.div)	 P9001-58,62 REC/PLAY 0.8Vp-p (1msec.div)	
 JK3902-3 REC/PLAY 1.5Vp-p (20usec.div)	 JK3902-4 REC/PLAY 1.4Vp-p (20usec.div)	 JK3902-16 REC/PLAY 1.8Vp-p (20usec.div)		
 JK3904-18 REC/PLAY 1.2Vp-p (20usec.div)	 JK3904-19 REC/PLAY 1.2Vp-p (20usec.div)	 JK3904-20 REC/PLAY 1.5Vp-p (20usec.div)		

Ref No.	IC1511					IC1512														
MODE	1	2	3	4		1	2	3	4											
REC	1.2	2.4	3.5	0		0	1.2	5.0	0											
PLAY	1.2	2.4	3.5	0		0	1.2	5.0	0											
STOP	1.2	2.4	0.2	0		0	1.2	5.0	0											

Ref No.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	0	5.1	2.1	2.6	2.8	1.9	1.9	1.9	2.6	1.5	0	2.8	2.7	2.0	2.7	2.0	2.7	0
PLAY	0	0	0	5.1	2.1	2.6	2.8	1.9	1.9	1.9	2.6	1.5	0	2.8	2.7	2.0	2.7	2.0	2.7	0
STOP	0	0	0	5.1	2.1	2.6	2.8	1.9	1.9	1.9	2.6	1.5	0	2.8	2.7	2.0	2.7	2.0	2.7	0

Ref No.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.7	5.0	2.3	0.1	0	2.9	0	0	2.2	2.8	0.4	2.2	2.0	1.7	3.0	2.3	3.0	2.1	1.4	2.1
PLAY	2.7	5.0	2.3	0.1	0	2.9	0	0	2.2	2.8	0.4	2.2	2.0	1.7	3.0	2.3	3.0	2.1	1.4	2.1
STOP	2.7	5.0	2.3	0	0	3.0	0	0	2.2	2.8	0.4	2.2	2.1	1.7	3.0	2.3	3.0	2.1	1.5	2.1

Ref No.	IC3001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	2.5	2.0	2.1	0	3.2	3.2	5.0	5.0	3.1	5.0	1.9	5.0	2.6	0	1.9	0	2.2	2.2	5.0	5.0
PLAY	2.5	2.0	2.1	0	3.2	3.2	5.0	5.0	3.1	5.0	1.9	5.0	2.6	0	1.9	0	2.2	2.2	5.0	5.0
STOP	2.5	2.0	2.1	0	3.2	3.2	5.0	5.0	0	5.0	1.9	**5.0**	2.6	0	1.9	0	2.2	2.2	5.0	5.0

Ref No.	IC3001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	4.0	2.3	2.2	2.4	2.2	2.4	2.2	1.2	2.0	2.7	0	5.0	0	2.4	2.8	2.2	2.8	0	0	2.6
PLAY	4.0	2.3	2.2	2.4	2.2	2.4	2.2	1.2	2.0	2.7	0	5.0	0	2.4	2.8	2.2	2.8	0	0	2.6
STOP	4.0	2.3	2.2	2.4	2.2	2.4	2.2	1.2	0	2.7	0	0	2.9	2.4	2.7	2.2	2.8	5.0	0	2.4

Ref No.	IC3001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0.7	0	3.2	4.9	2.4	2.3	2.4	0	0	0	0	5.1	0.5	2.6	2.5	2.5	0	2.3	0	2.6
PLAY	0.7	0	3.2	4.9	2.4	2.3	2.4	0	0	0	0	5.1	0.5	2.6	2.5	2.5	0	2.3	0	2.6
STOP	0.7	0	3.2	5.0	2.3	2.3	2.3	0	2.3	2.3	2.3	5.1	0.6	2.5	2.5	2.5	0	2.3	0	2.6

Ref No.	IC3002							
MODE	1	2	3	4	5	6	7	8
REC	5.1	0	0	3.2	4.7	0	0	5.8
PLAY	5.1	0	0	3.2	4.7	0	0	5.8
STOP	5.1	0	0	3.2	4.7	0	0	5.9

Ref No.	IC3701																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.7	0	2.0	4.9	1.7	4.7	1.3	4.6	0.1	2.6	0	1.3	4.7	1.3	0	0.1	2.6	0	1.3	4.7
PLAY	1.7	0	2.0	4.9	1.7	4.7	1.3	4.6	0.1	2.6	0	1.3	4.7	1.3	0	0.1	2.6	0	1.3	4.7
STOP	1.7	0	2.0	4.9	1.7	4.7	1.3	4.6	0.1	2.6	0	1.3	4.7	1.3	0	0.1	0	0	1.3	4.7

Ref No.	IC3701																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.3	0	0.1	2.6	4.8	1.6	1.6	1.8	1.8	2.1	0	2.1	2.1	0	2.1	1.6	1.6	0	1.7	4.9
PLAY	1.3	0	0.1	2.6	4.8	1.6	1.6	1.8	1.8	2.1	0	2.1	2.1	0	2.1	1.6	1.6	0	1.7	4.9
STOP	1.3	0	0.1	0	4.8	1.6	1.6	1.8	1.8	2.1	0	2.1	2.1	2.1	2.1	1.6	1.5	0	1.7	4.9

Ref No.	IC3701																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	2.7	0	2.7	4.8	2.7	2.7	1.7	4.6	2.7	0	2.7	4.8	2.7	2.9	1.1	0	4.9	4.9	4.9	0.1
PLAY	2.7	0	2.7	4.8	2.7	2.7	1.7	4.6	2.7	0	2.7	4.8	2.7	2.9	1.1	0	4.9	4.9	4.9	0.1
STOP	2.7	0	0	4.8	2.7	2.7	1.7	4.6	0	0	0	4.8	2.7	2.9	1.1	0	0	4.9	4.9	0.1

Ref No.	IC3701																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0.8	0	4.9	1.2	0	1.6	0	2.0	0	0	0	0	0	0.1	0	0	4.9	0	0
PLAY	0	0.8	0	4.9	1.2	0	1.6	0	2.0	0	0	0	0	0	0.1	0	0	4.9	0	0
STOP	0	0.8	0.8	4.9	1.2	0	1.6	0	2.0	0	0.1	4.9	0.1	0	0.1	0	0	4.9	0	0

Ref No.	IC3901							IC3903												
MODE	1	2	3	4	5	6		1	2	3	4	5	6	7	8					
REC	0	2.1	5.1	2.1	0	2.1		1.7	0	2.1	0	1.7	5.1	1.0	0					
PLAY	0	2.1	5.1	2.1	0	2.1		1.7	0	2.1	0	1.7	5.1	1.0	0					
STOP	0	2.1	5.1	2.1	0	2.1		1.7	0	2.1	0	1.8	5.1	1.0	0					
Ref No.	IC4301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	6.0	6.1	6.0	6.1	6.0	0	0	0	0	12.0	6.1	6.0	6.0	6.0	6.1	12.1				
PLAY	6.0	6.1	6.0	6.1	6.0	0	0	0	0	12.0	6.1	6.0	6.0	6.0	6.1	12.1				
STOP	6.0	6.1	6.0	6.1	6.0	0	0	0	0	12.0	6.1	6.0	6.0	6.0	6.1	12.1				
Ref No.	IC4302																			
MODE	1	2	3	4	5	6	7	8												
REC	6.1	6.1	6.0	0	6.0	6.0	6.1	12.1												
PLAY	6.1	6.1	6.0	0	6.0	6.0	6.1	12.1												
STOP	6.1	6.1	6.0	0	6.0	6.1	6.1	12.1												
Ref No.	IC4501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.3	0	2.3	0	2.5	2.5	2.1	0	0	0	0	2.1	0	0	0	2.7	0.6	2.6	2.6	2.1
PLAY	2.3	0	2.3	0	2.5	2.5	2.1	0	0	0	0	2.1	0	0	0	2.7	0.6	2.6	2.6	2.1
STOP	2.3	0	2.3	0	2.5	2.5	2.1	0	0	0	0	2.1	0	0	0	2.7	0.6	2.6	2.6	2.1
Ref No.	IC4501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.0	2.1	0	2.1	5.1	2.1	0	4.3	3.9	3.7	1.1	2.5	2.6	0.8	2.6	0	2.0	0	0	5.1
PLAY	2.0	2.1	0	2.1	5.1	2.1	0	4.3	3.9	3.7	1.1	2.5	2.6	0.8	2.6	0	2.0	0	0	5.1
STOP	2.1	2.1	0	2.1	5.1	2.1	0	4.3	1.8	1.8	0	2.6	2.6	0.8	2.6	0	2.0	0	0	5.1
Ref No.	IC4501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	2.9	2.4	3.3	1.6	2.5	2.5	2.5	3.6	2.5	5.1	0.1	5.9	0	0	0	5.9	12.1	6.0	0
PLAY	0	2.9	2.4	3.3	1.6	2.5	2.5	2.5	3.6	2.5	5.1	0.1	5.9	0	0	0	5.9	12.1	6.0	0
STOP	0	2.9	2.4	3.3	1.6	2.5	1.6	2.5	3.6	2.5	5.1	0.1	6.0	0	0	0	6.0	12.1	6.1	0
Ref No.	IC4501																			
MODE	61	62	63	64																
REC	2.5	2.4	2.5	2.5																
PLAY	2.5	2.4	2.5	2.5																
STOP	2.6	2.4	2.5	2.5																
Ref No.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	4.8	0	5.1	5.1	5.0	4.8	3.2	0	4.9	5.1	0	5.1	3.8	0	0	2.4	0	4.8
PLAY	0	0	4.8	0	5.1	5.1	5.0	4.8	3.2	0	4.9	5.1	0	5.1	3.8	0	0	2.4	0	4.8
STOP	4.8	0	4.8	0	5.1	5.1	5.0	4.8	3.3	0	0	5.1	0	5.1	3.8	0	0	2.4	0	0
Ref No.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	5.1	0	4.3	2.0	0	4.8	0	0	0	0	4.8	4.8	0	-	-	-	-	-	-	0
PLAY	5.1	0	4.3	2.0	0	4.8	0	0	0	0	4.8	4.8	0	-	-	-	-	-	-	0
STOP	5.1	0	4.3	2.0	0	0	0	0	0	0	4.8	4.8	-	-	-	-	-	-	-	0
Ref No.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	0	0	4.4	0	1.4	2.1	0	1.5	5.0	1.5	5.1	2.1	1.7	1.8	0	0	0	0
PLAY	0	0	0	0	4.4	0	1.4	2.1	0	1.5	5.0	1.5	5.1	2.1	1.7	1.8	0	0	0	0
STOP	0	0	0	4.4	4.4	0	0	2.1	0	1.5	5.0	1.5	5.1	2.1	2.2	1.8	0	0	0	0
Ref No.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0	0	0	0	0	0	4.0	2.0	4.2	-	-	0.1	0	0	2.5	0	4.8	5.0	3.4
PLAY	0	0	0	0	0	0	0	4.0	2.0	4.2	-	-	0.1	0	0	2.5	0	4-8	5.0	3.4
STOP	0	0	0	0	0	0	0	4.0	1.9	4.2	-	-	0.1	0	4.7	0	2.4	4.8	0.2	5.1
Ref No.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	0	0	0	0	2.5	2.5	0	0.1	1.3	2.5	2.5	0	2.3	2.8	2.5	2.5	5.1	5.1	5.0
PLAY	0	0	0	0	0	2.5	2.5	0	0.1	1.3	2.5	2.5	0	2.3	2.8	2.5	2.5	5.1	5.1	5.0
STOP	0	0	0	0	0	2.6	2.6	0	0.1	1.3	2.5	2.5	0	2.5	2.5	2.5	2.5	5.1	5.1	5.0
Ref No.	IC6301																			
MODE	1	2	3	4																
REC	5.0	0	4.7	5.8																
PLAY	5.0	0	4.7	5.8																
STOP	5.0	0	4.7	5.9																
Ref No.	IC7301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0.6	2.6	0.6	2.4	2.2	4.5	0	2.5	2.5	0	0	2.8	2.8	2.2	0	3.5	3.5	5.1	0
PLAY	0	0.6	2.6	0.6	2.4	2.2	4.5	0	2.5	2.5	0	0	2.8	2.8	2.2	0	3.5	3.5	5.1	0
STOP	0	0.6	2.6	0.6	2.4	2.2	4.5	0	2.5	2.5	0	0	2.8	2.8	2.2	0	3.5	3.5	5.1	0
Ref No.	IC7301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	2.2	3.5	2.1	4.9	0	1.7	4.9	1.7	2.2	2.2	0	2.2								
PLAY	2.2	3.5	2.1	4.9	0	1.7	4.9	1.7	2.2	2.2	0	2.2								
STOP	2.2	3.5	2.1	4.9	0	1.7	4.9	1.7	2.2	2.2	0	2.2								
Ref No.	IC7401									IC7403										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	5.0	0	0	3.1	4.7	0	0	5.8		0	2.5	1.9	0	2.8	2.5	3.4	5.1			
PLAY	5.0	0	0	3.1	4.7	0	0	5.8		0	2.5	1.9	0	2.8	2.5	3.4	5.1			
STOP	5.0	0	0	3.1	4.7	0	0	5.8		0	2.5	1.9	0	2.8	2.5	3.4	5.1			

Ref No.	Q1341				Q1351				Q1352				Q1353				Q1501			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C		
REC	12.1	12.8	12.8		0	0.1	1.6		5.1	5.8	5.9		0	0.1	0.7		0	5.0		
PLAY	12.1	12.8	12.8		0	0.1	1.6		5.1	5.8	5.9		0	0.1	0.7		0	5.0		
STOP	12.1	12.9	12.8		0	0.1	1.6		5.1	5.8	5.9		0	0.1	0.7		0	5.0		
Ref No.	Q1502				Q3001				Q3004				Q3701				Q3702			
MODE	E	C			E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	5.0			1.6	5.0	2.2		1.5	5.1	2.2		0	0	0		0	0	0	
PLAY	0	5.0			1.6	5.0	2.2		1.5	5.1	2.2		0	0	0		0	0	0	
STOP	0	5.0			1.6	5.0	2.2		1.5	5.1	2.2		0	0	0		0	0	-0.1	
Ref No.	Q3903								Q4001				Q4002				Q4081			
MODE	1	2	3	4	5	6			E	C	B		E	C	B		E	C	B	
REC	5.1	1.5	2.2	0	3.6	3.0			-18.5	0.1	-26.6		0	-18.5	0		0.2	4.9	0.7	
PLAY	5.1	1.5	2.2	0	3.6	3.0			-18.5	0.1	-26.6		0	-18.5	0		0.2	4.9	0.7	
STOP	5.1	1.5	2.2	0	3.6	3.0			0	0	0.8		0	0	0.8		0	0.3	0.3	
Ref No.	Q4084				Q6305				Q7401				Q7901				Q7902			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		1	2	3	
REC	5.8	5.6	5.0		5.1	5.8	5.8		2.6	0	2.0		0	11.4	-0.4		0	-0.5	-0.5	
PLAY	5.8	5.6	5.0		5.1	5.8	5.8		2.6	0	2.0		0	11.4	-0.4		0	-0.5	-0.5	
STOP	5.9	0.3	5.9		5.1	5.9	5.8		2.6	0	2.0		0	11.4	-0.4		0	-0.5	-0.5	
Ref No.	Q7903																			
MODE	E	C	B																	
REC	-17.4	-17.3	-16.6																	
PLAY	-17.4	-17.3	-16.6																	
STOP	-17.4	-17.3	-16.6																	
Ref No.	QR1351				QR1352				QR3701				QR3951				QR3952			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	37.3	37.3	0.1		37.3	37.3	0.1		5.8	-0.1	5.8		0.1	-0.2	0		0	0	-0.2	
PLAY	37.3	37.3	0.1		37.3	37.3	0.1		5.8	-0.1	5.8		0.1	-0.2	0		0	0	-0.2	
STOP	37.3	37.2	0.1		37.3	37.3	0.1		5.9	-0.1	5.9		0.1	-0.2	0		0	0	-0.2	
Ref No.	QR3953				QR4082				QR4301				QR4302				QR4303			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	-0.2		0	0.1	4.8		0	12.0	0		0	0	-0.2		0	0	-0.2	
PLAY	0	0	-0.2		0	0.1	4.8		0	12.0	0		0	0	-0.2		0	0	-0.2	
STOP	0	0	-0.2		0	5.8	0		0	12.0	0		0	0	-0.2		0	0	-0.2	
Ref No.	QR4304				QR4801				QR7901											
MODE	E	C	B		E	C	B		E	C	B									
REC	0	-0.2	0		5.1	-26.4	4.8		5.1	5.1	0									
PLAY	0	-0.2	0		5.1	-26.4	4.8		5.1	5.1	0									
STOP	0	-0.2	0		5.1	5.0	0		5.1	5.1	0									

Ref No.	P9001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.0	1.2	0	0	-	0	0	0	-	-	0	0	-	0	3.4	0	4.8	1.5	5.0	0
PLAY	2.0	1.2	0	0	-	0	0	0	-	-	0	0	-	0	3.4	0	4.8	1.5	5.0	0
STOP	2.0	1.2	0	0	-	0	0	0	-	-	0	0	-	0	3.4	0	4.8	1.5	5.0	0
Ref No.	P9001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	5.0	1.0	3.4	0	0.1	1.0	5.0	0	4.8	1.0	4.8	0	4.9	1.0	5.0	0	5.0	-	4.8	0
PLAY	5.0	1.0	3.4	0	0.1	1.0	5.0	0	4.8	1.0	4.8	0	4.9	1.0	5.0	0	5.0	-	4.8	0
STOP	5.0	1.0	3.4	0	0.1	1.0	5.0	0	4.8	1.0	4.8	0	4.9	1.0	5.0	0	5.0	-	4.8	0
Ref No.	P9001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0.1	3.4	-	0	3.4	0	3.1	2.5	-	2.5	-	0	-	0	-	0	0	2.5	0	0
PLAY	0.1	3.4	-	0	3.4	0	3.1	2.5	-	2.5	-	0	-	0	-	0	0	2.5	0	0
STOP	0.1	3.4	-	0	3.4	0	3.2	2.5	-	2.5	-	0	-	0	-	0	0	2.5	0	0
Ref No.	P9001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	2.5	0	0	4.9	-	0	4.9	5.0	2.4	-	1.7	-	3.4	3.3	3.5	0	1.5	5.0	1.5
PLAY	0	2.5	0	0	4.9	-	0	4.9	5.0	2.4	-	1.7	-	3.4	3.3	3.5	0	1.5	5.0	1.5
STOP	0	2.5	0	0	4.9	-	0	4.9	5.0	2.4	-	1.7	-	3.5	3.3	3.5	0	1.5	5.0	1.5
Ref No.	P9001																			
MODE	81	82	83	84	85	86	87	88												
REC	5.9	1.2	5.0	1.5	5.9	1.2	5.9	1.2												
PLAY	5.9	1.2	5.0	1.5	5.9	1.2	5.9	1.2												
STOP	5.9	1.2	5.0	1.5	5.9	1.2	5.9	1.2												

Ref No.	IC11150						IC11200													
MODE	1	2	3	4	5		1	2	3											
REC	2.3	1.6	0	12.4	-1050		10.4	2.5	0											
PLAY	2.3	1.6	0	12.4	-1055		10.4	2.5	0											
STOP	2.3	1.6	0	12.4	-1058		10.4	2.5	0											

Ref No.	IC11400																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	6.2	6.3	12.5	12.5	12.5	12.5	7.0	12.6	0	2.3	4.9	2.1	2.4	4.4	4.7	4.8	0	0	12.5	6.6
PLAY	6.2	6.3	12.5	12.5	12.5	12.5	7.0	12.6	0	2.3	4.9	2.1	2.4	4.4	4.7	4.8	0	0	12.5	6.6
STOP	6.2	6.3	12.5	12.5	12.5	12.5	7.0	12.6	0	2.3	4.9	2.1	2.4	4.4	4.7	4.8	0	0	12.5	6.6

Ref No.	IC11400																			
MODE	21	22	23	24	25	26														
REC	2.4	6.1	6.1	6.1	6.1	0														
PLAY	2.4	6.1	6.1	6.1	6.1	0														
STOP	2.4	6.1	6.1	6.1	6.1	0														

Ref No.	IC11500								IC31400							
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
REC	12.5	0	1.5	4.1	0	1.4	0.8	7.7	12.5	4.5	1.2	1.2	1.2	0	10.8	12.5
PLAY	12.5	0	1.5	4.1	0	1.4	0.8	7.7	12.5	4.5	1.2	1.2	1.2	0	10.8	12.5
STOP	12.5	0	1.5	4.1	0	1.4	0.8	7.7	12.5	4.5	1.2	1.2	1.2	0	10.8	12.5

Ref No.	IC31401								IC31505							
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
REC	12.5	0	1.5	4.2	0	1.2	0.8	5.0	5.2	0	0	3.3	5.9	0	0	5.9
PLAY	12.5	0	1.5	4.2	0	1.2	0.8	5.1	5.2	0	0	3.3	5.9	0	0	5.9
STOP	12.5	0	1.5	4.2	0	1.2	0.8	5.1	5.2	0	0	3.3	5.9	0	0	5.9

Ref No.	IC31506						IC31507								IC31508				
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8	1	2	3	4	5
REC	5.9	4.8	4.9	0	0		5.0	0	0	3.1	4.8	0	0	5.9	5.9	4.8	3.3	0	0
PLAY	5.9	4.8	4.9	0	0		5.0	0	0	3.1	4.8	0	0	5.9	5.9	4.8	3.3	0	0
STOP	5.9	4.8	5.0	0	0		5.0	0	0	3.1	4.8	0	0	5.9	5.9	4.8	3.3	0	0

Ref No.	IC31509						IC31510							
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8
REC	2.0	3.5	1.3	1.0	0		1.5	0.8	3.5	3.5	0	0	2.0	2.0
PLAY	2.0	3.5	1.3	1.0	0		1.5	0.8	3.5	3.5	0	0	2.0	2.0
STOP	2.0	3.5	1.3	1.0	0		1.5	0.8	3.5	3.5	0	0	2.0	2.0

Ref No.	IC37501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.9	5.1	0	1.4	1.4	4.2	0	0	0	0	-	1.8	0	2.1	4.9	4.9	5.0	0	0	4.8
PLAY	4.9	5.1	0	1.4	1.4	4.2	0	0	0	0	-	1.8	0	2.1	4.9	4.9	5.0	0	0	4.8
STOP	4.9	5.1	0	1.4	0	4.2	0	0	0	0	4.9	1.8	0	2.1	4.9	4.9	5.0	0	0	4.8

Ref No.	IC37501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	0	1.8	0	0	0	0	-	-	0	1.7	1.4	0	4.9	2.5	0	0	4.9	5.0	5.2
PLAY	0	0	1.8	0	0	0	0	-	-	0	1.7	1.4	0	4.9	2.5	0	0	4.9	5.0	5.2
STOP	0	0	1.8	0	0	0	0	0	0	0	1.7	1.4	0	4.9	2.5	0	0	4.9	5.0	5.2

Ref No.	IC37501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	2.0	4.0	4.3	0	0	3.8	0	0	0	0	0	5.2	0	0	4.9	0	0	4.9	0
PLAY	0	2.0	4.0	4.3	0	0	3.8	0	0	0	0	0	5.2	0	0	4.9	0	0	4.9	0
STOP	0	2.0	4.0	4.3	0	0	3.8	0	0	0	0	0	5.2	0	0	4.9	0	0	4.9	0

Ref No.	IC37501																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0	0	2.6	0	0	0	0	4.9	0	0	0	0	0	5.1	0	0	0	0	0
PLAY	0	0	0	2.6	0	0	0	0	4.9	0	0	0	0	0	5.1	0	0	0	0	0
STOP	0	0	0	2.6	0	0	0	0	4.9	0	0	0	0	0	5.1	0	0	0	0	0

Ref No.	IC37501																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	5.0	0	4.9	0	4.9	2.6	4.8	0	0.1	0	0	0	0	5.0	5.2	5.2	0	4.6	0
PLAY	0	5.0	0	4.9	0	4.9	2.6	4.8	0	0.1	0	0	0	0	5.0	5.2	5.2	0	4.6	0
STOP	0	5.0	0	4.9	0	4.9	2.6	4.8	0	0.1	0	0	0	5.1	5.0	5.2	5.2	0	4.6	0

Ref No.	IC37501																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116				
REC	0	0	0	0	5.2	4.9	5.0	4.9	0	0	0	4.9	0	0	0	5.1				
PLAY	0	0	0	0	5.2	4.9	5.0	4.9	0	0	0	4.9	0	0	0	5.1				
STOP	0	0	0	5.1	5.2	4.9	5.0	4.9	0	0	0	4.9	0	0	0	5.1				

Ref No.	IC37505						IC37506								IC37508				
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8	1	2	3	4	5
REC	2.3	3.5	0	0	0		5.8	1.8	1.8	0	1.8	1.8	1.8	12.5	0	0	0	4.9	4.9
PLAY	2.3	3.5	0	0	0		5.8	1.8	1.8	0	1.8	1.8	1.8	12.5	0	0	0	4.9	4.9
STOP	2.3	3.5	0	0	0		5.8	1.8	1.8	0	1.8	1.8	1.8	12.5	0	0	0	4.9	4.9

Ref No.	Q11200					Q11270							Q31401					
MODE	1	2	3	4		1	2	3	4	5	6		1	2	3	4	5	6
REC	11.4	10.4	0	1.6		12.5	12.5	0.1	12.5	12.5	12.5		1.1	1.1	10.5	12.5	1.1	1.1
PLAY	11.4	10.4	0	1.6		12.5	12.5	0.1	12.5	12.5	12.5		1.1	1.1	10.5	12.5	1.1	1.1
STOP	11.4	10.4	0	1.6		12.5	12.5	0.1	12.5	12.5	12.5		1.7	3.2	10.5	12.5	1.6	1.5

Ref No.	Q37512		
MODE	1	2	3
REC	5.6	12.5	5.0
PLAY	5.6	12.5	5.0
STOP	5.6	12.5	5.0

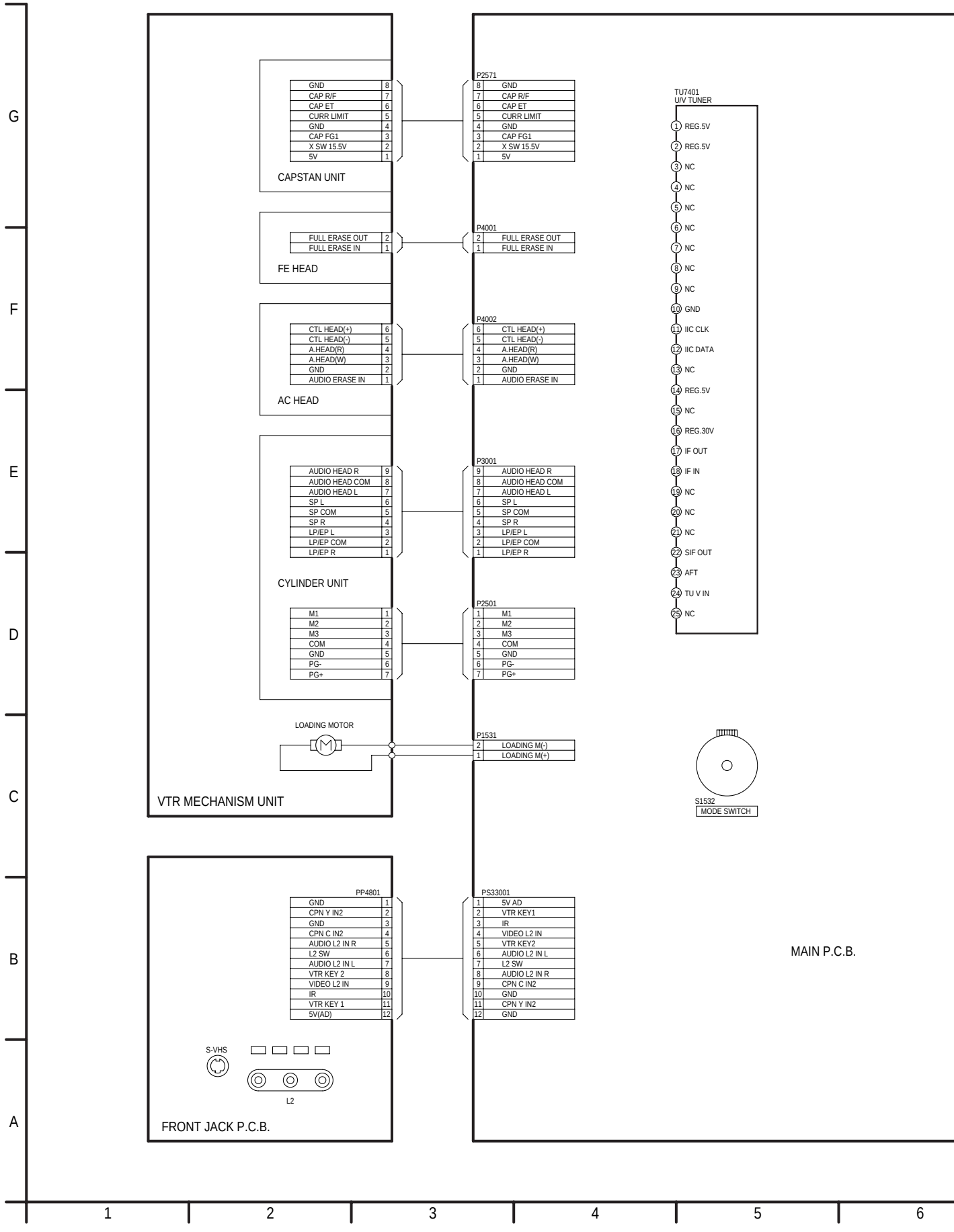
Ref No.	QR11300				QR11301				QR31300				QR31301					
MODE	E	C	B		E	C	B		E	C	B		1	2	3	4	5	6
REC	0	0.1	4.8		0	0	4.8		0	0	4.8		0	0	0	4.5	4.8	0
PLAY	0	0.1	4.8		0	0	4.8		0	0	4.8		0	0	0	4.5	4.8	0
STOP	0	0.1	4.8		0	0	4.8		0	0	4.8		0	0	0	4.5	4.8	0

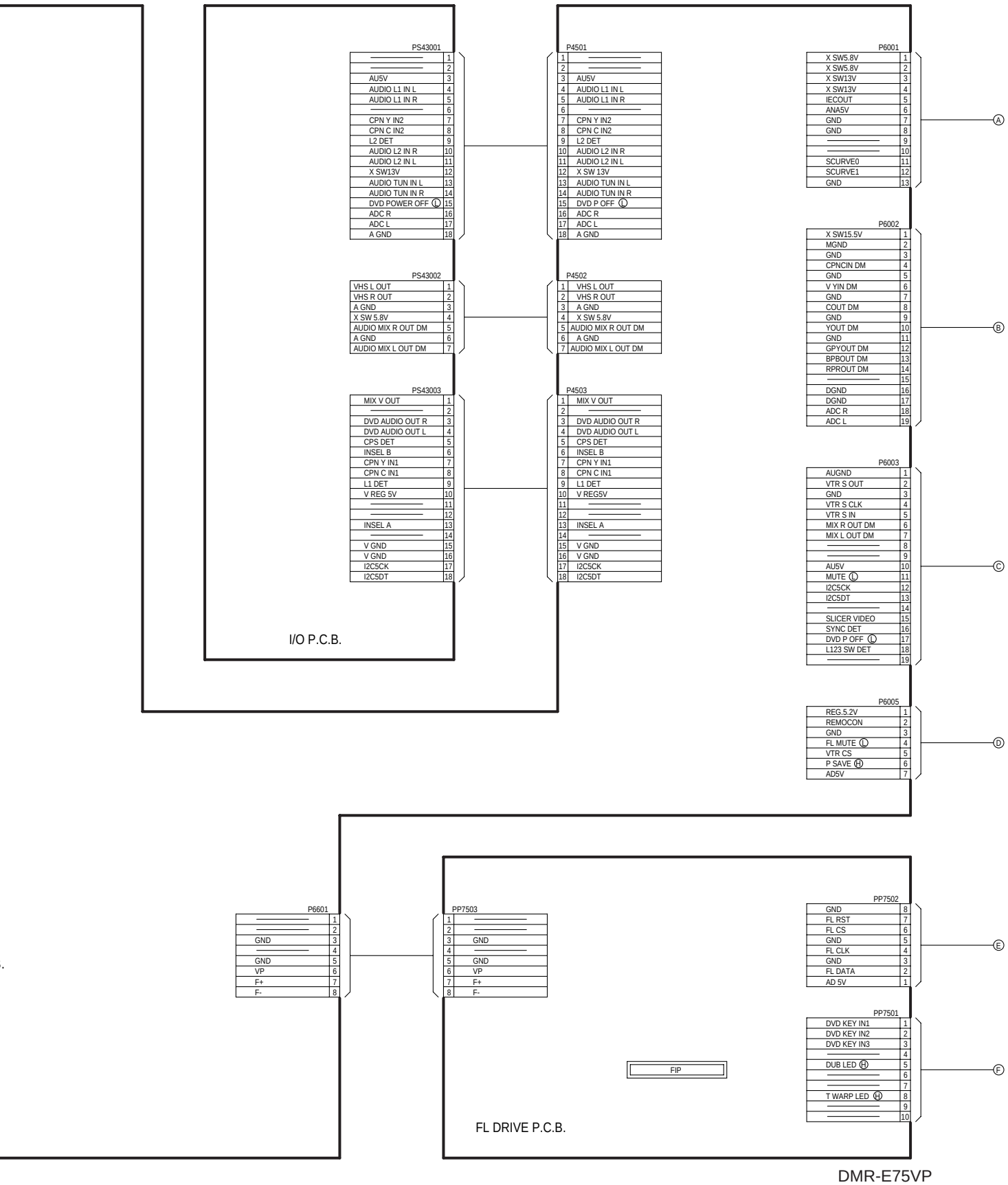
Ref No.	QR34001							QR34002							QR37501		
MODE	1	2	3	4	5	6		1	2	3	4	5	6		E	C	B
REC	5.9	4.8	0	0	0	0		5.9	2.4	0	0	0	0		4.8	0	4.8
PLAY	5.9	4.8	0	0	0	0		5.9	2.4	0	0	0	0		4.8	0	4.8
STOP	5.9	4.8	0	0	0	0		5.9	2.4	0	0	0	0		4.8	0	4.8

Ref No.	QR37502		
MODE	E	C	B
REC	0	0	2.3
PLAY	0	0	2.3
STOP	0	0	2.3

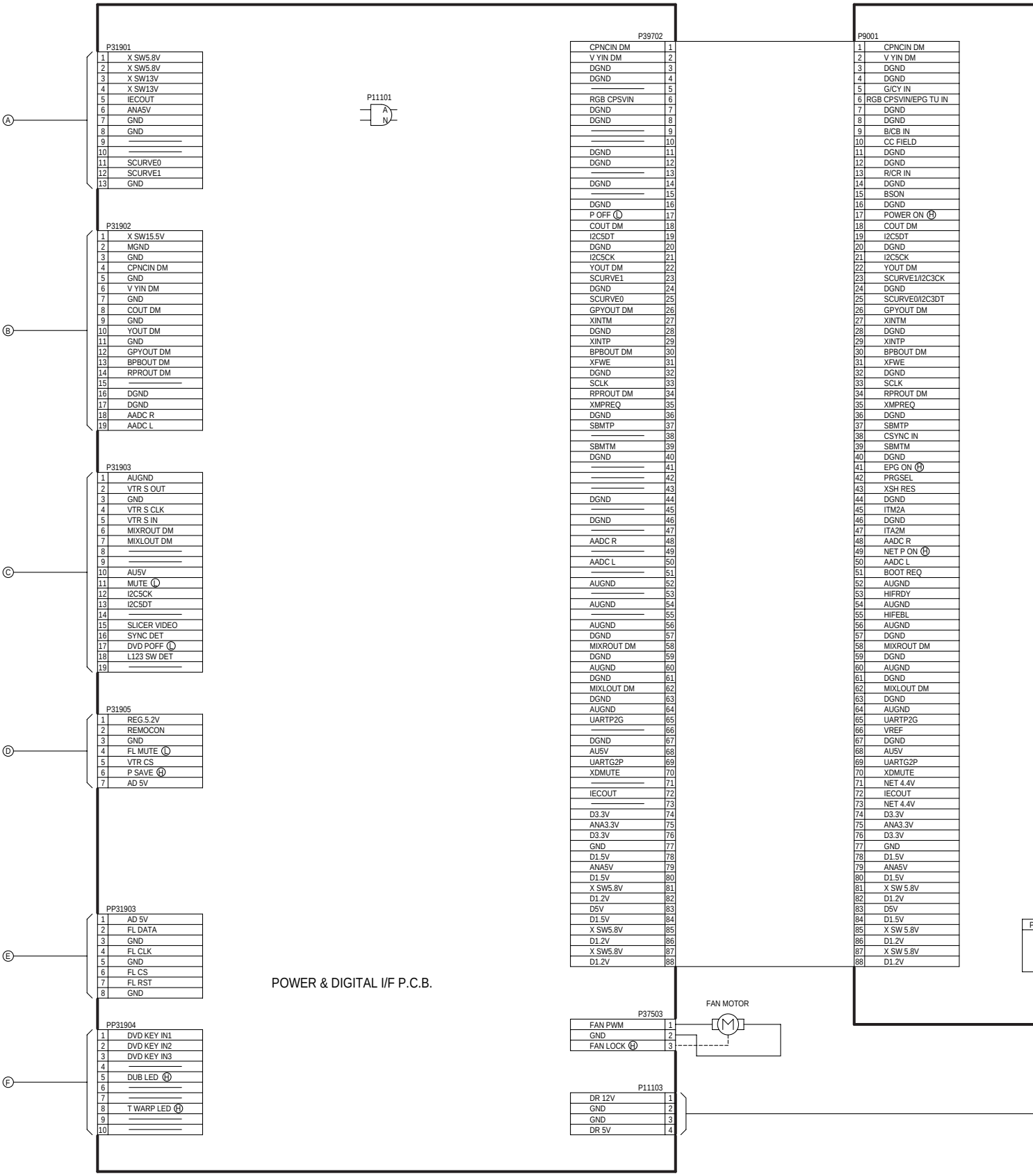
22 Schematic Diagram

22.1. Interconnection Schematic Diagram



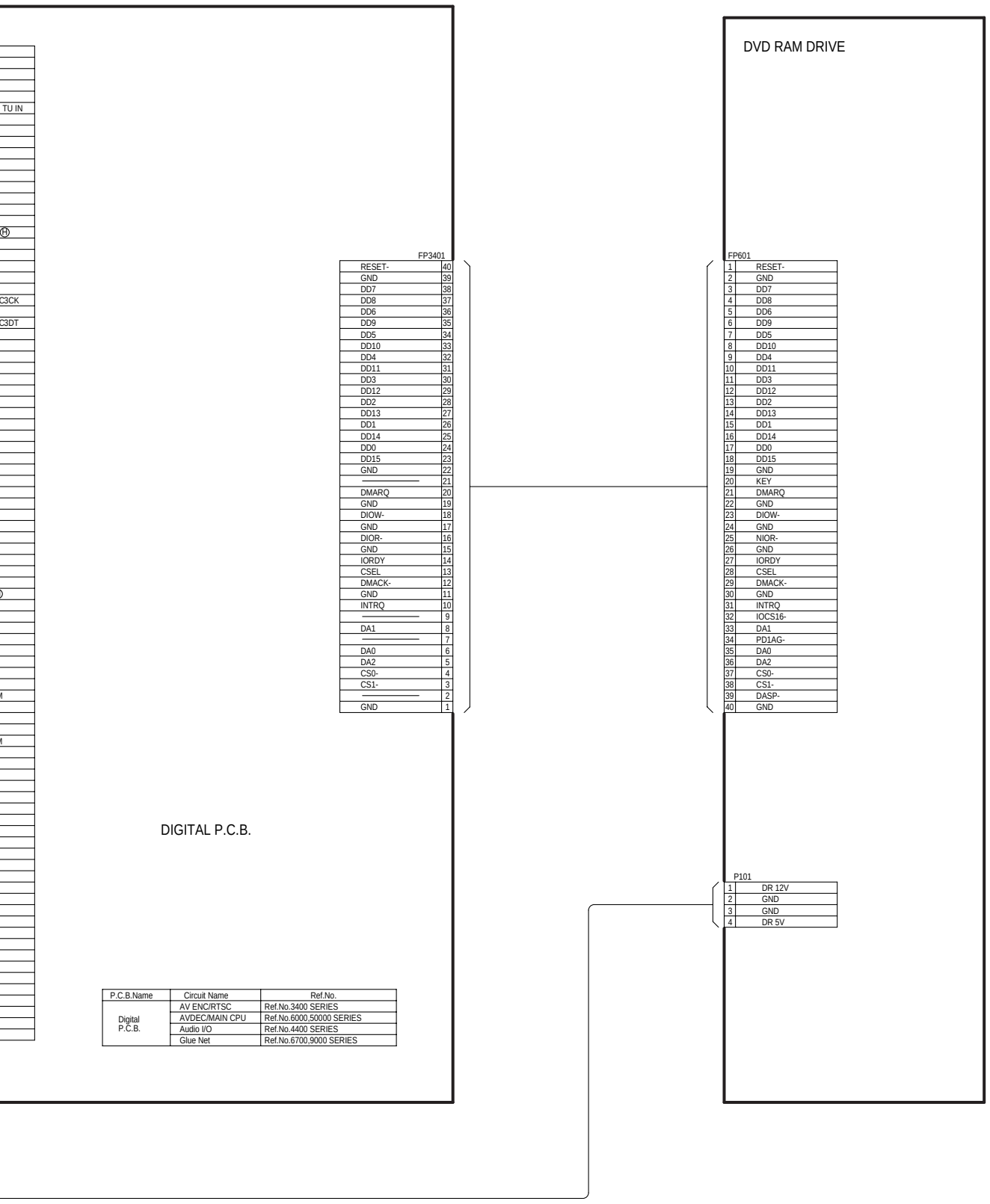


DMR-E75VP
Interconnection
Schematic Diagram



DMR-E75VP
Interconnection
Schematic Diagram

NOTE:DO NOT USE THE PART NUMBER SH
THE CORRECT PART NUMBER IS SHOW
SLIGHTLY DIFFERNT OR AMENDED SIN



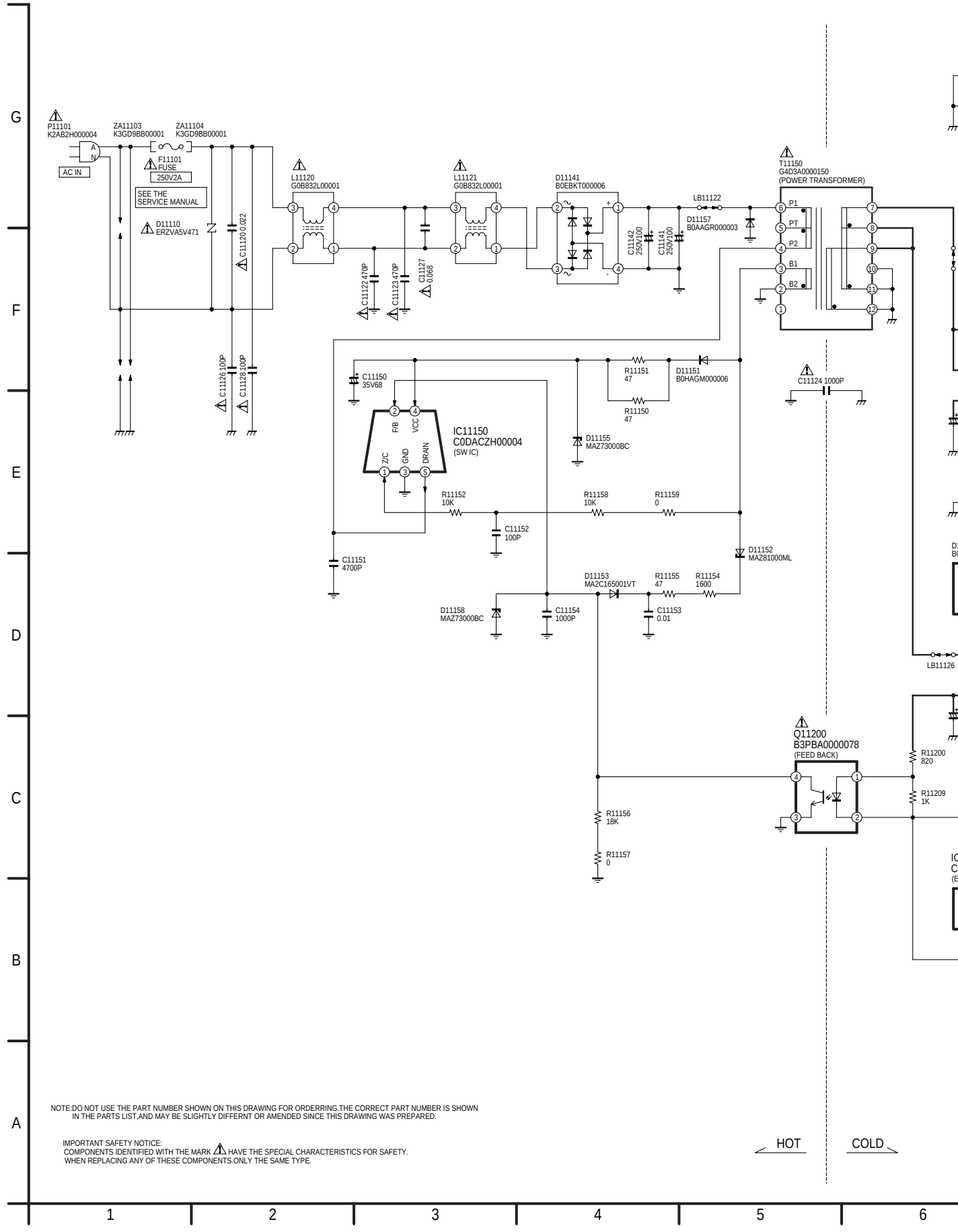
P.C.B.Name	Circuit Name	Ref.No.
Digital P.C.B.	AV ENC/RTSC	Ref.No.3400 SERIES
	AVDEC/MAIN CPU	Ref.No.6000,50000 SERIES
	Audio I/O	Ref.No.4400 SERIES
	Glue Net	Ref.No.6700,9000 SERIES

OT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
RECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
Y DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
Interconnection
Schematic Diagram

7 | 18 | 19 | 20 | 21 | 22

22.2. Power Supply Section (Power & Digital I/F P.C.B.(1/2)) Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

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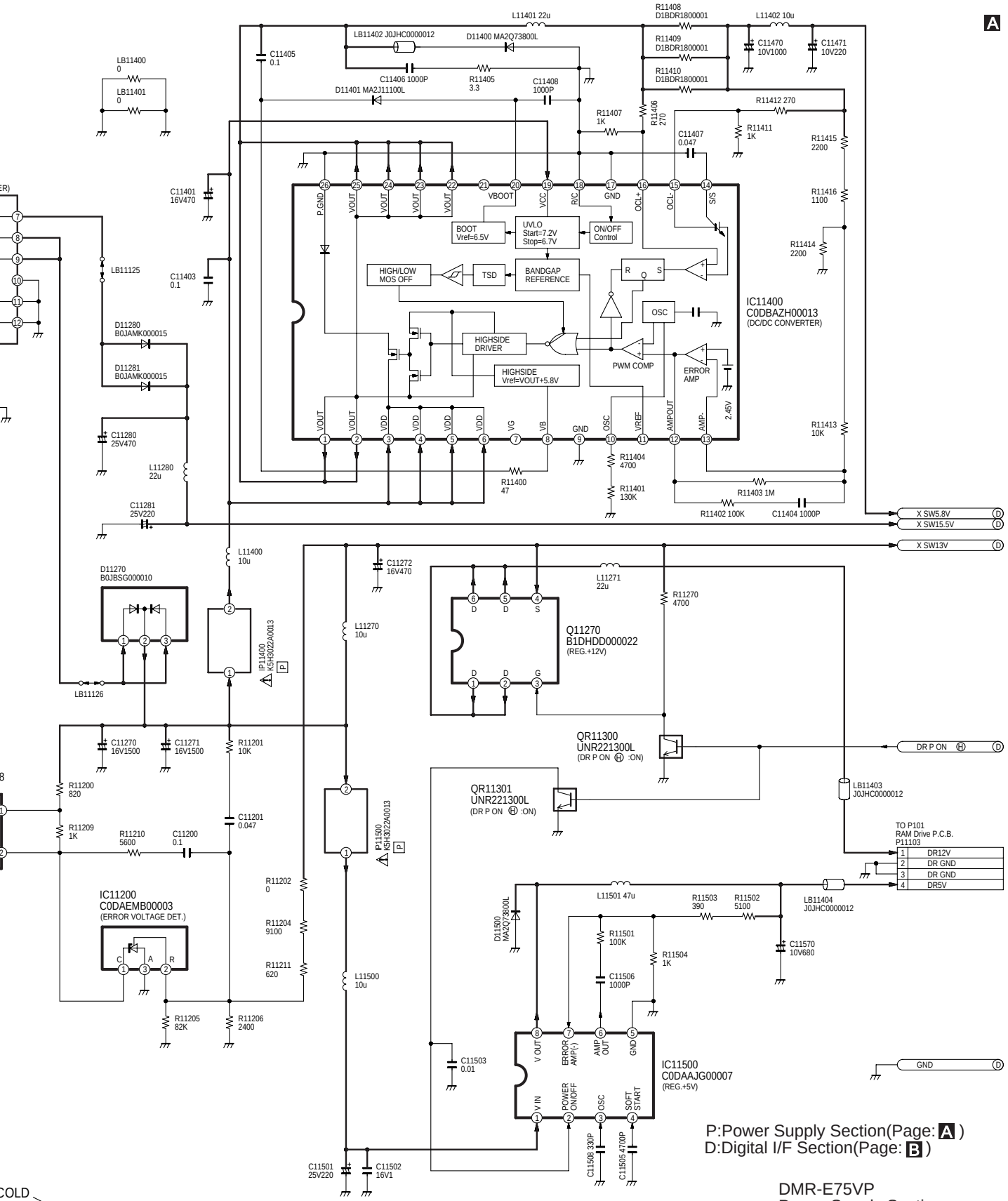
HOT COLD

Diagram (P)

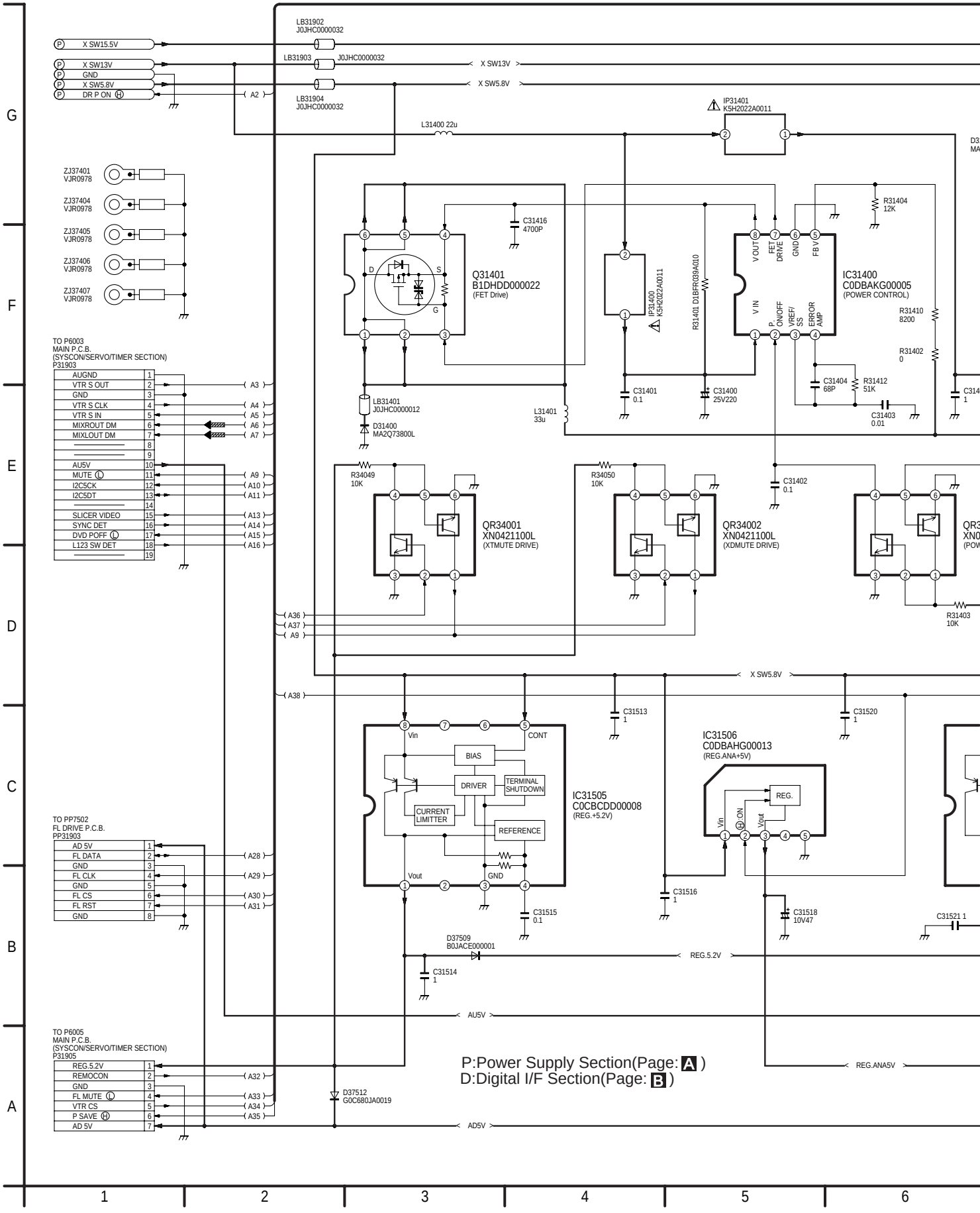


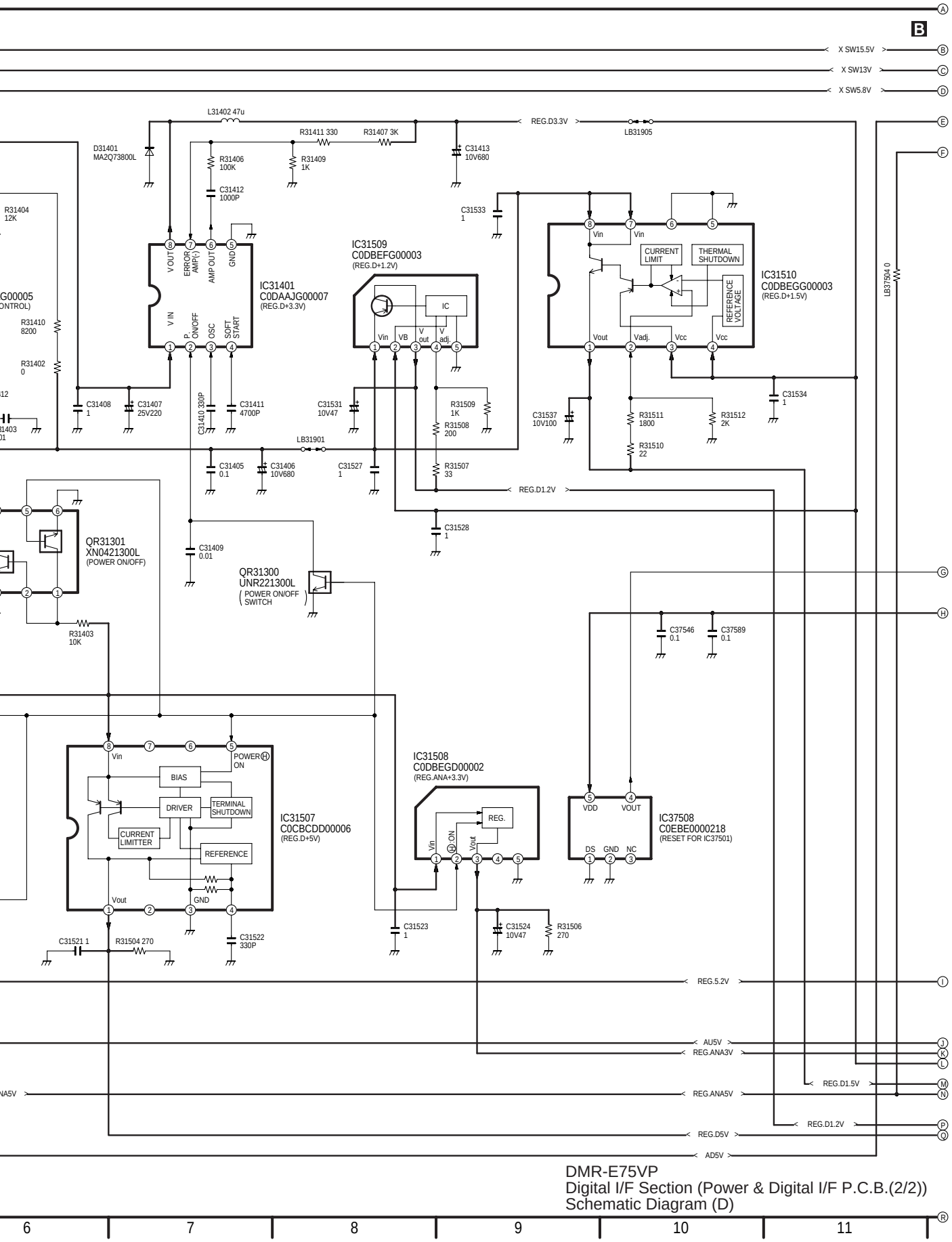
P:Power Supply Section(Page: A)
D:Digital I/F Section(Page: B)

DMR-E75VP
Power Supply Section
(Power & Digital I/F P.C.B.(1/2))
Schematic Diagram (P)

6 | 7 | 8 | 9 | 10 | 11

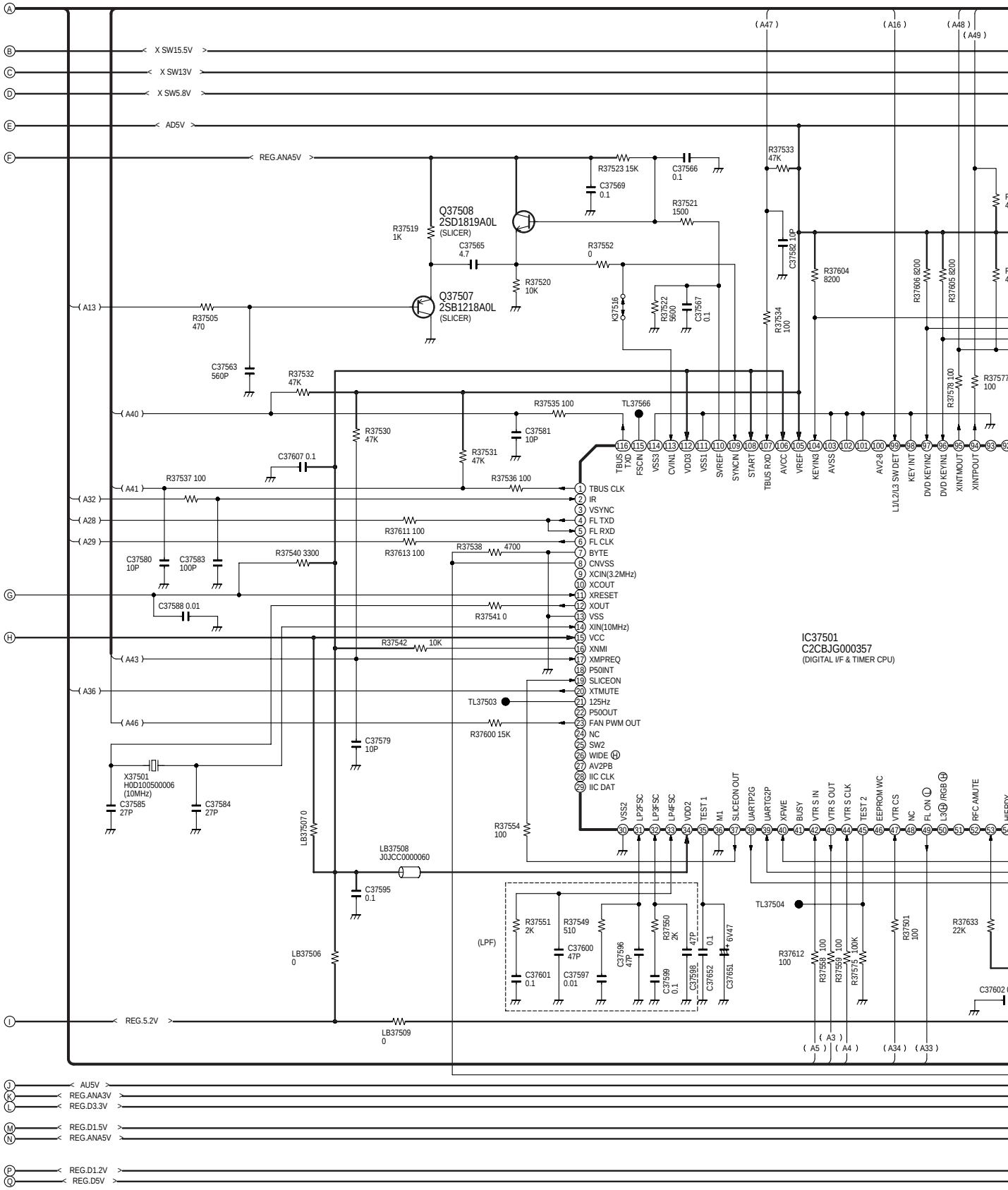
22.3. Digital I/F Section (Power & Digital I/F P.C.B.(2/2)) Schematic Diagram (D)



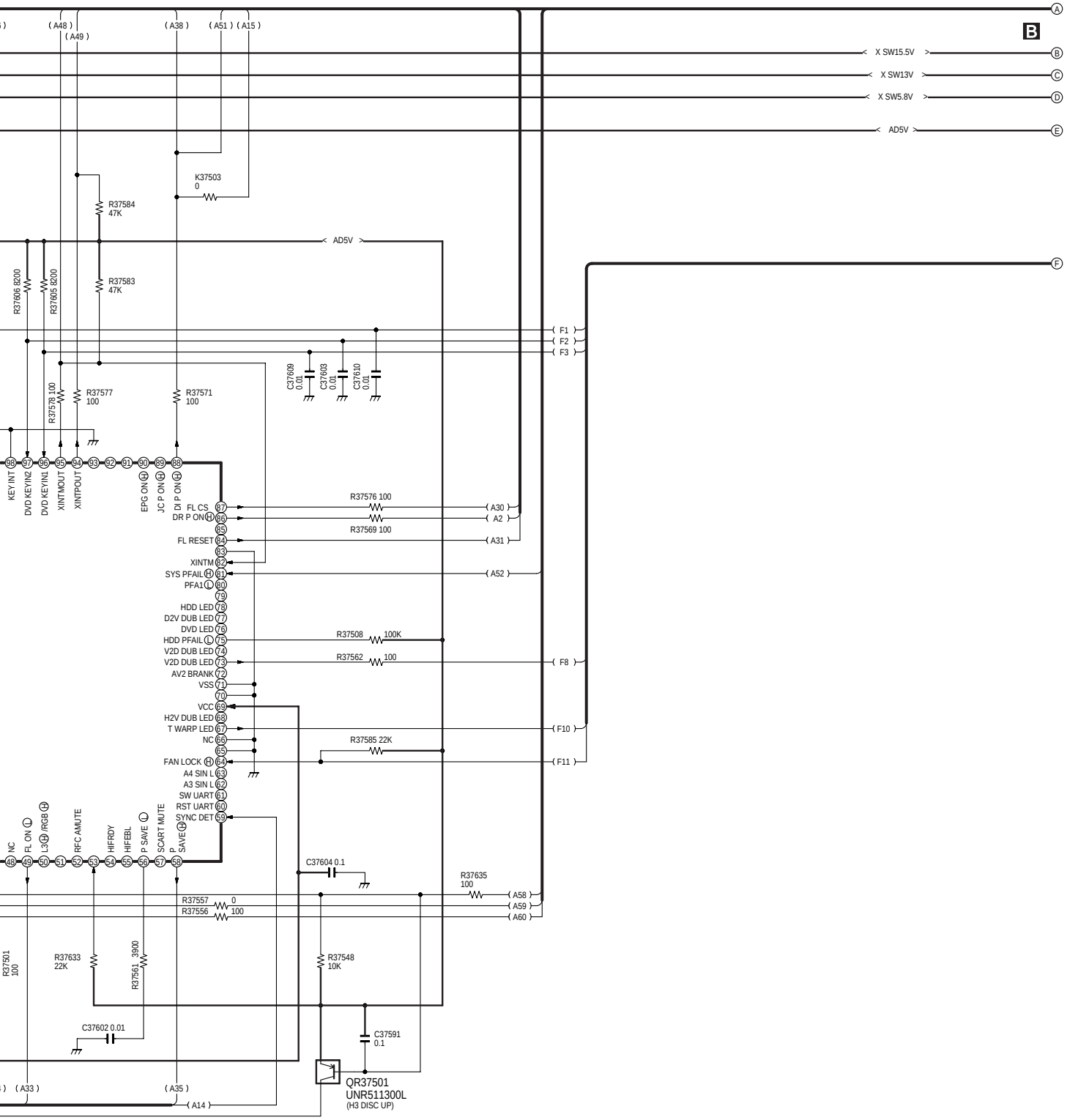


DMR-E75VP
Digital I/F Section (Power & Digital I/F P.C.B.(2/2))
Schematic Diagram (D)

6 | 7 | 8 | 9 | 10 | 11



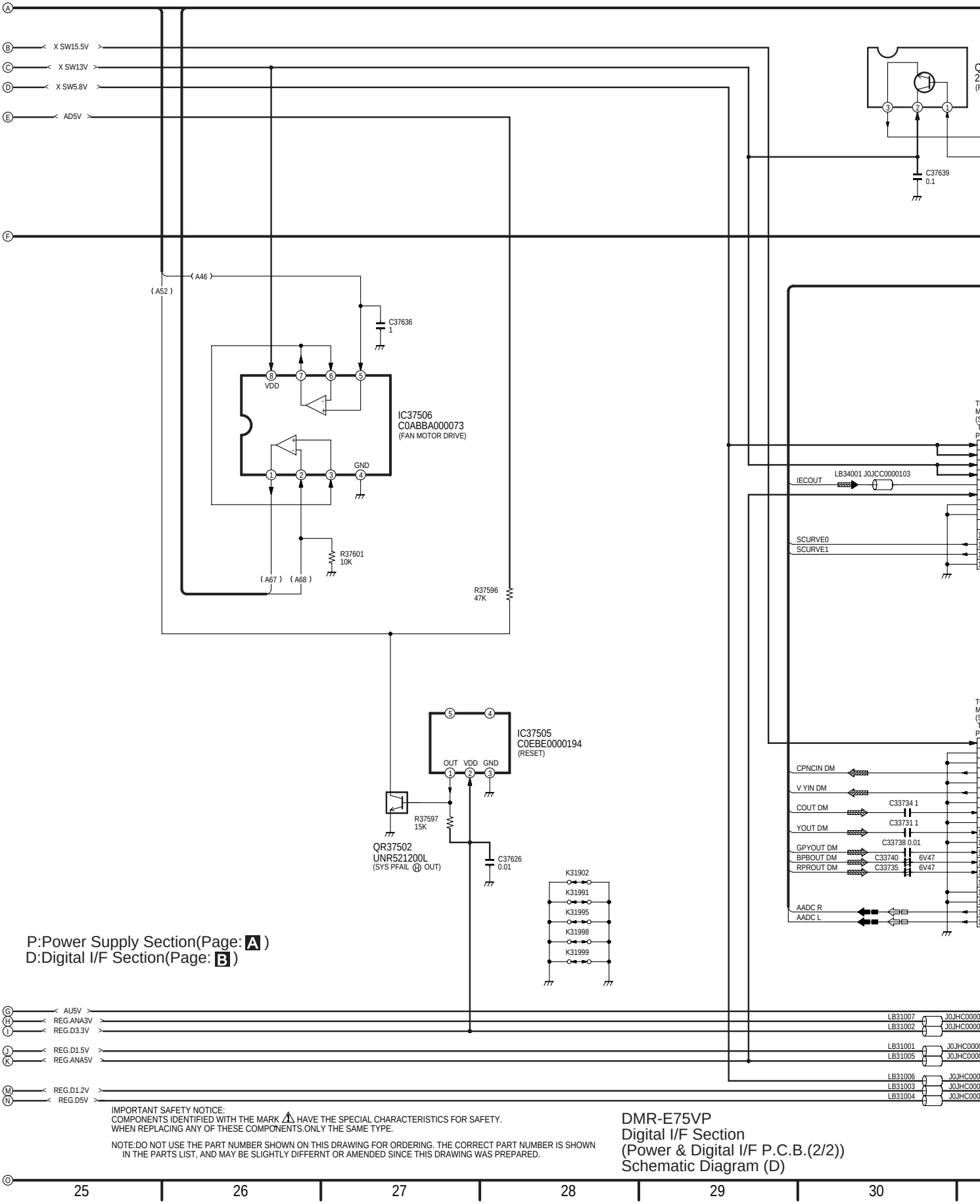
DMR-E75VP
Digital I/F Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram (D)



DMR-E75VP
Digital I/F Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram (D)

.(2/2))

17 | 18 | 19 | 20 | 23 | 24



P:Power Supply Section(Page: A)
D:Digital I/F Section(Page: B)

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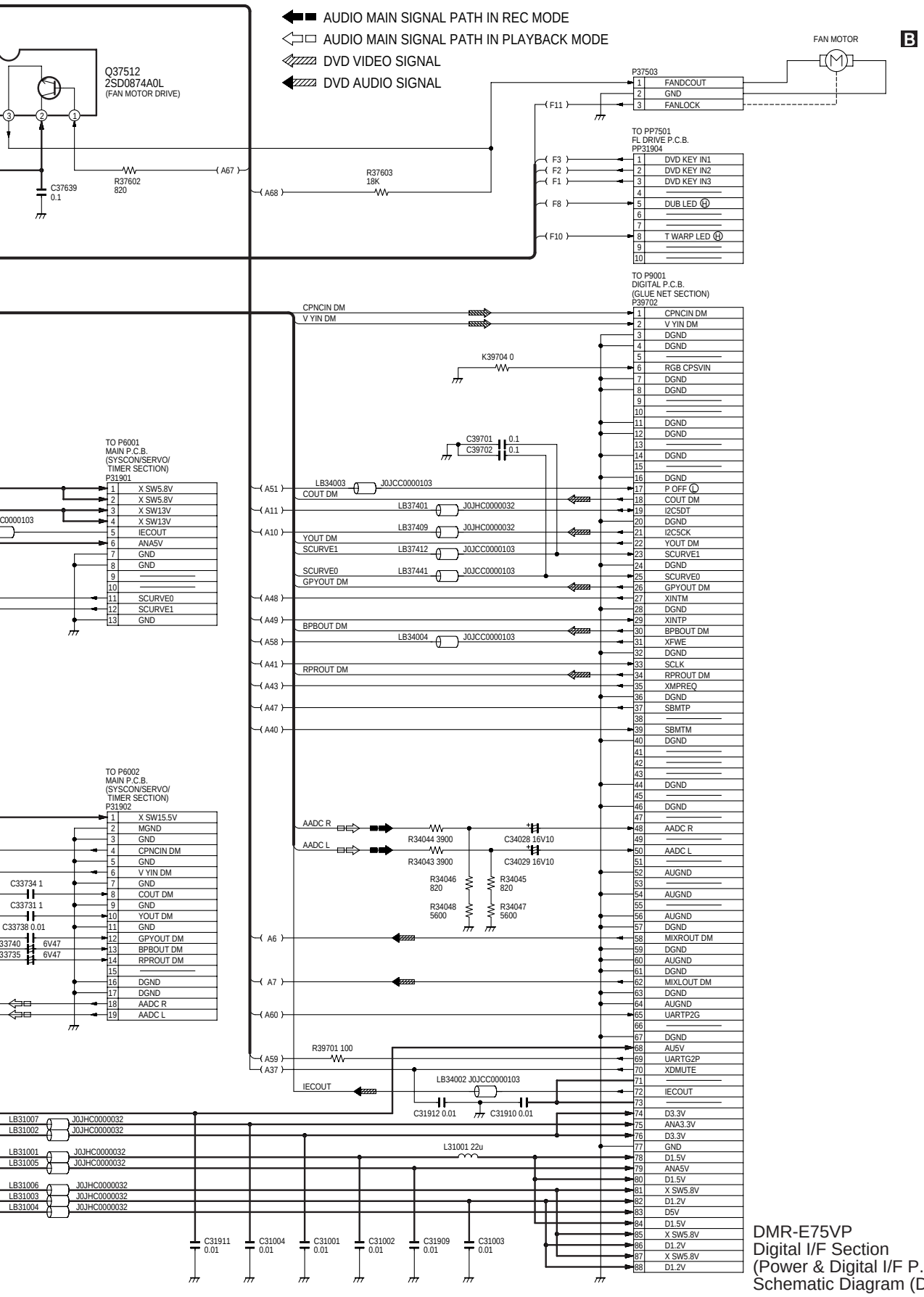
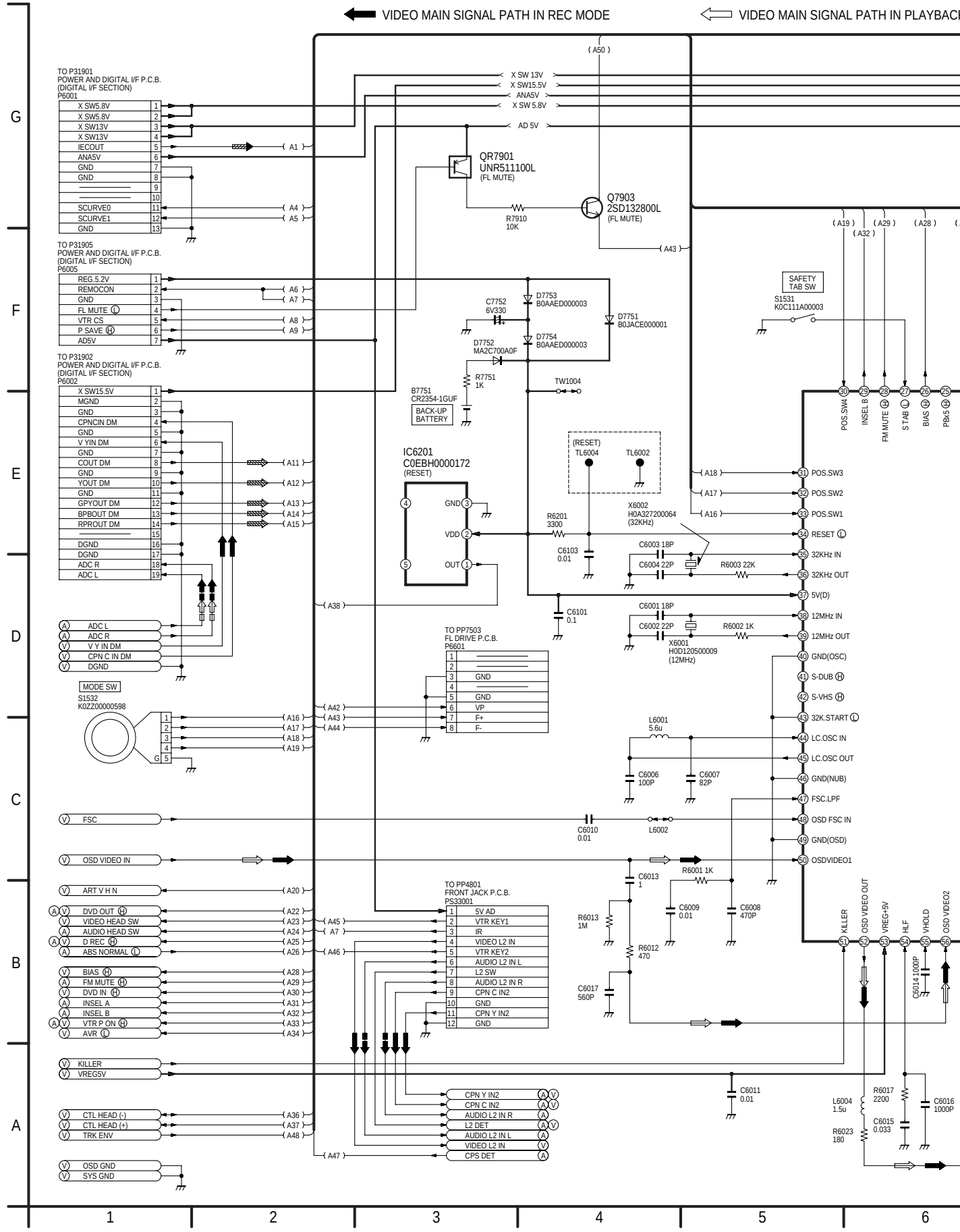
DMR-E75VP
Digital I/F Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram (D)

25 | 26 | 27 | 28 | 29 | 30



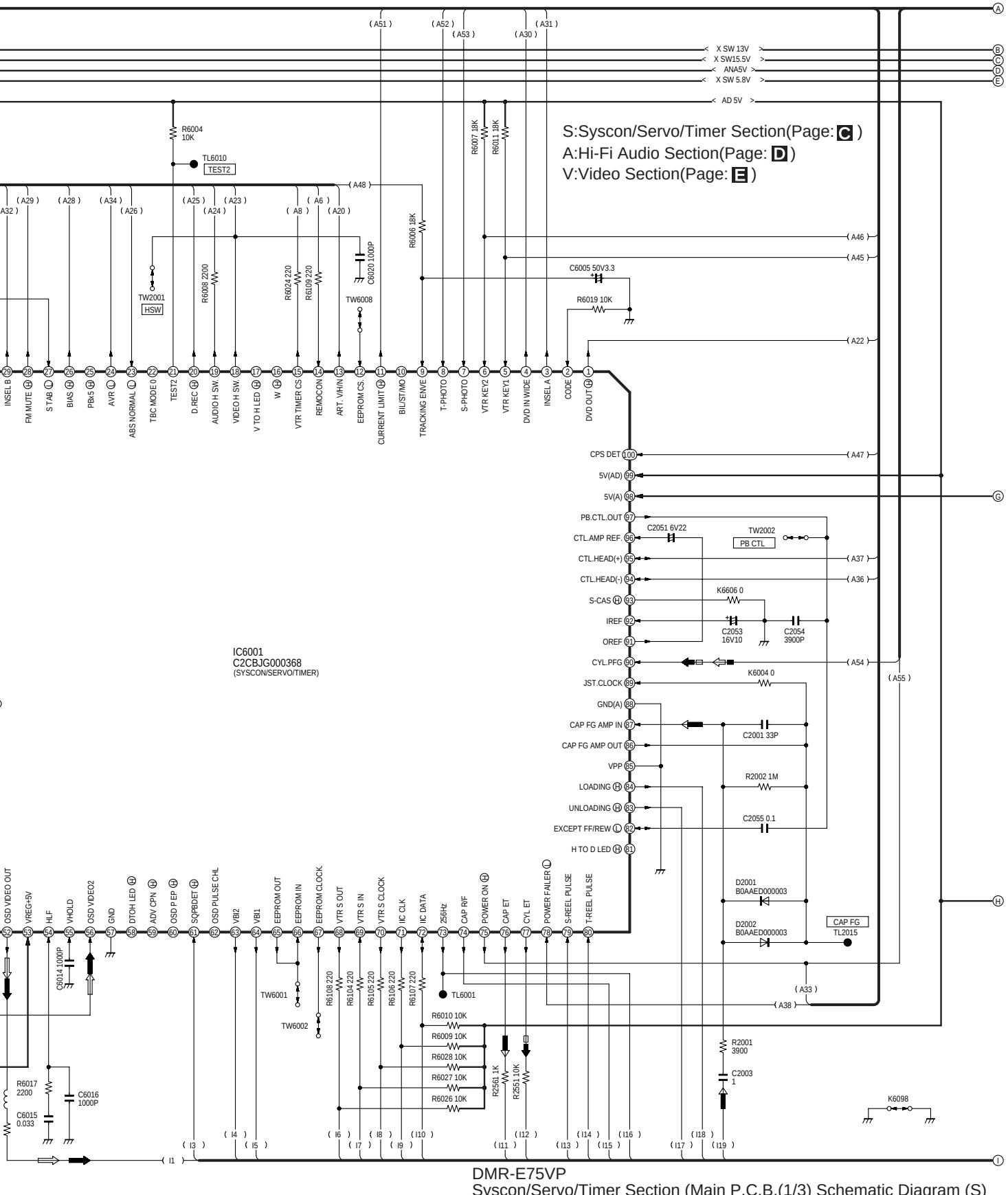
DMR-E75VP
Digital I/F Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram (D)

22.4. Syscon/Servo/Timer Section (Main P.C.B.(1/3)) Schematic Diagram (S)



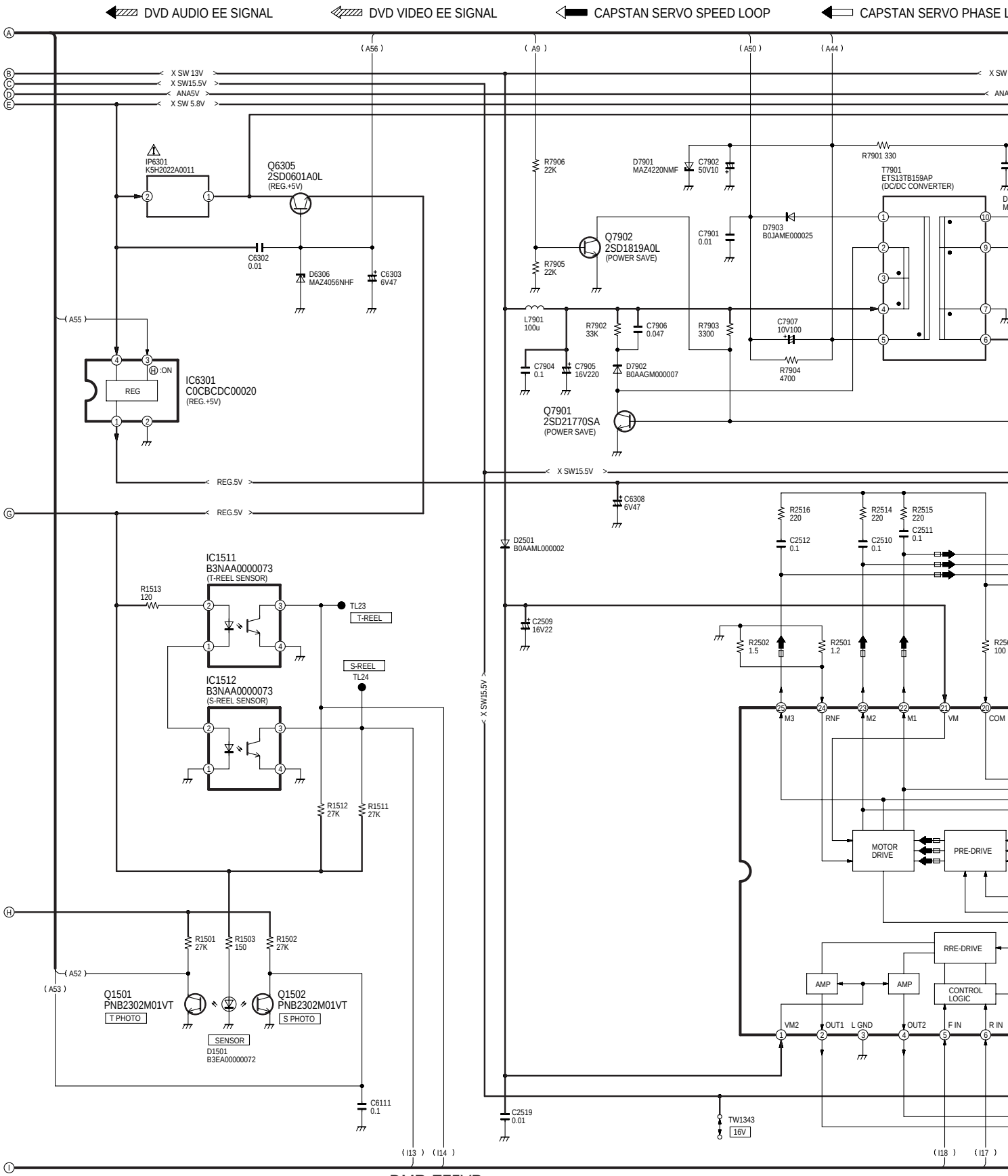
(S)

PATH IN PLAYBACK MODE AUDIO MAIN SIGNAL PATH IN REC MODE AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



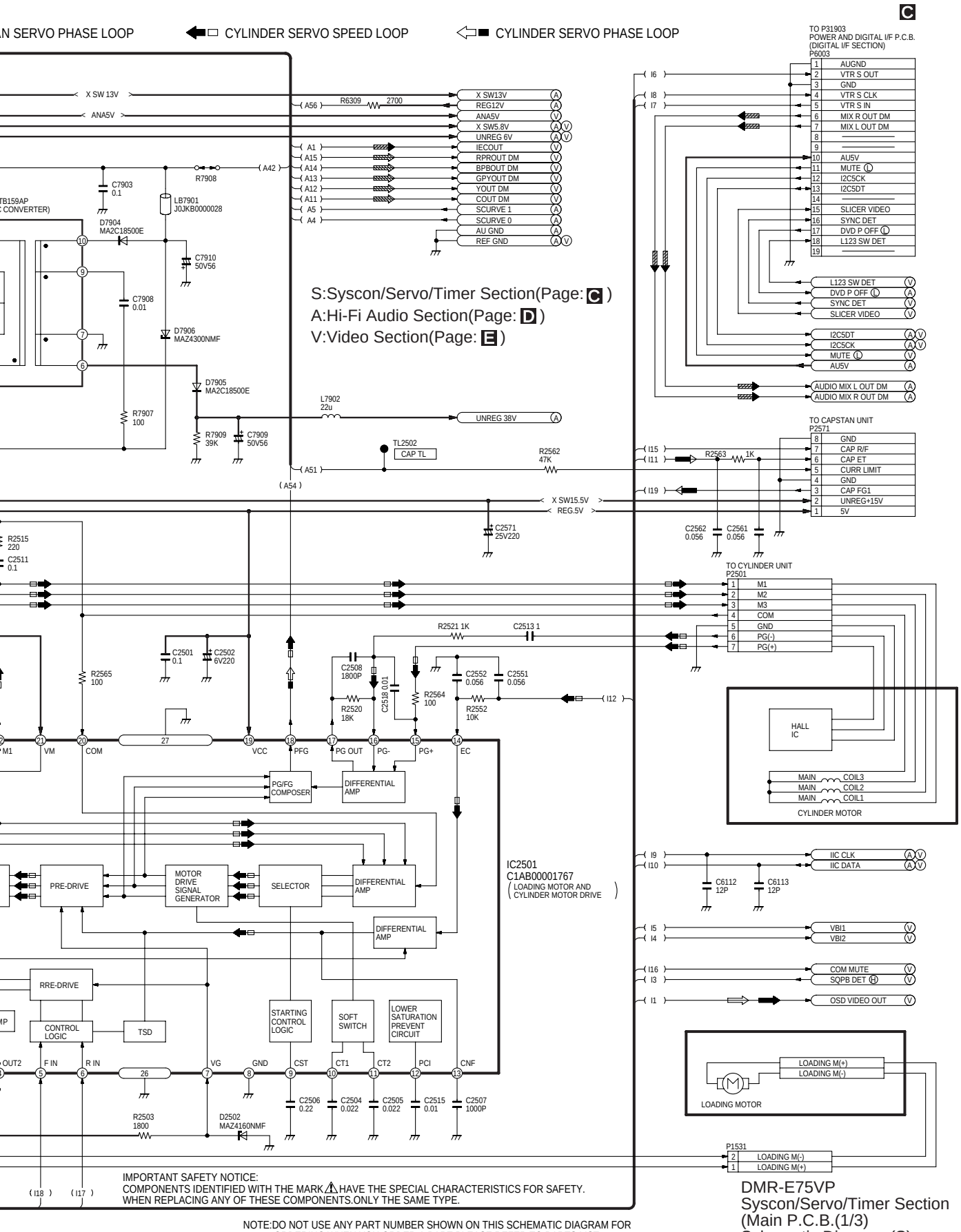
DMR-E75VP
Syscon/Servo/Timer Section (Main P.C.B.(1/3) Schematic Diagram (S)

6 | 7 | 8 | 9 | 10 | 11



DMR-E75VP
Syscon/Servo/Timer Section (Main P.C.B.(1/3) Schematic Diagram (S)

12 | 13 | 14 | 15 | 16 | 17


C
AN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
TO P31903
POWER AND DIGITAL I/F P.C.B.
(DIGITAL I/F SECTION)
P6003
AUGND
VTR S OUT
GND
VTR S CLK
VTR S IN
MIX R OUT DM
MIX L OUT DM
AU5V
MUTE
I2C5CK
I2C5DT
SLICER VIDEO
SYNC DET
DVD P OFF
L123 SW DET
X SW 13V
ANA5V
X SW13V
REG12V
ANA5V
X SW5.8V
UNREG 6V
IECOUT
RPROUT DM
BPBOUT DM
GPYOUT DM
YOUT DM
COUT DM
SCURVE 1
SCURVE 0
AU GND
REF GND
R6309 2700
R7908
C7903 0.1
LB7901 J0JKB0000028
D7904 MA2C18500E
C7910 50V56
C7908 0.01
D7906 MAZ4300NMF
D7905 MA2C18500E
R7907 100
R7909 39K
C7909 50V56
L7902 22u
UNREG 38V
TL2502 CAP TL
R2562 47K
S:Syscon/Servo/Timer Section(Page: C)
A:Hi-Fi Audio Section(Page: D)
V:Video Section(Page: E)
AUDIO MIX L OUT DM
AUDIO MIX R OUT DM
TO CAPSTAN UNIT
P2571
GND
CAP R/F
CAP ET
CURR LIMIT
GND
CAP FG1
UNREG+15V
5V
R2563 1K
C2562 0.056
C2561 0.056
C2571 25V220
X SW15.5V
REG.5V
R2515 220
C2511 0.1
TO CYLINDER UNIT
P2501
M1
M2
M3
COM
GND
PG(-)
PG(+)
R2521 1K
C2513 1
C2501 0.1
C2502 6V220
R2565 100
C2508 1800P
C2518 0.01
R2520 18K
R2564 100
R2552 10K
C2552 0.056
C2551 0.056
HALL IC
MAIN COIL3
MAIN COIL2
MAIN COIL1
CYLINDER MOTOR
PG/FG COMPOSER
DIFFERENTIAL AMP
PRE-DRIVE
MOTOR DRIVE SIGNAL GENERATOR
SELECTOR
DIFFERENTIAL AMP
DIFFERENTIAL AMP
IC2501
C1AB00001767
LOADING MOTOR AND CYLINDER MOTOR DRIVE
IIC CLK
IIC DATA
C6112 12P
C6113 12P
VBI1
VBI2
COM MUTE
SQPB DET
OSD VIDEO OUT
RRE-DRIVE
CONTROL LOGIC
TSD
STARTING CONTROL LOGIC
SOFT SWITCH
LOWER SATURATION PREVENT CIRCUIT
LOADING M(+)
LOADING M(-)
LOADING MOTOR
P1531
LOADING M(-)
LOADING M(+)
M1 VM COM 27 VCC PFG PG OUT PG- PG+ EC
OUT2 F IN R IN 26 VG GND CST CT1 CT2 PCI CNF
C2506 0.22
C2504 0.022
C2505 0.022
C2515 0.01
C2507 1000P
R2503 1800
D2502 MAZ4160NMF
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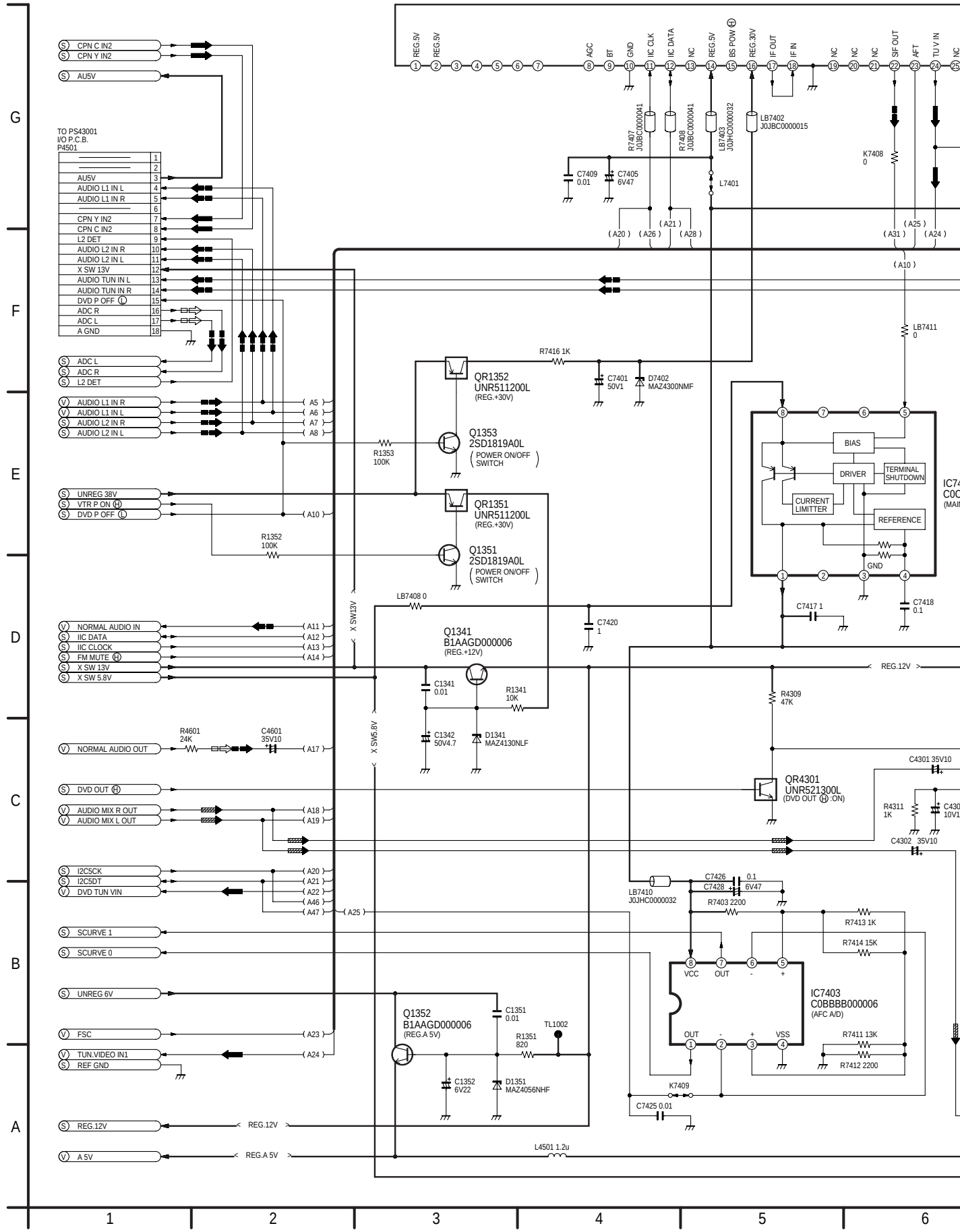
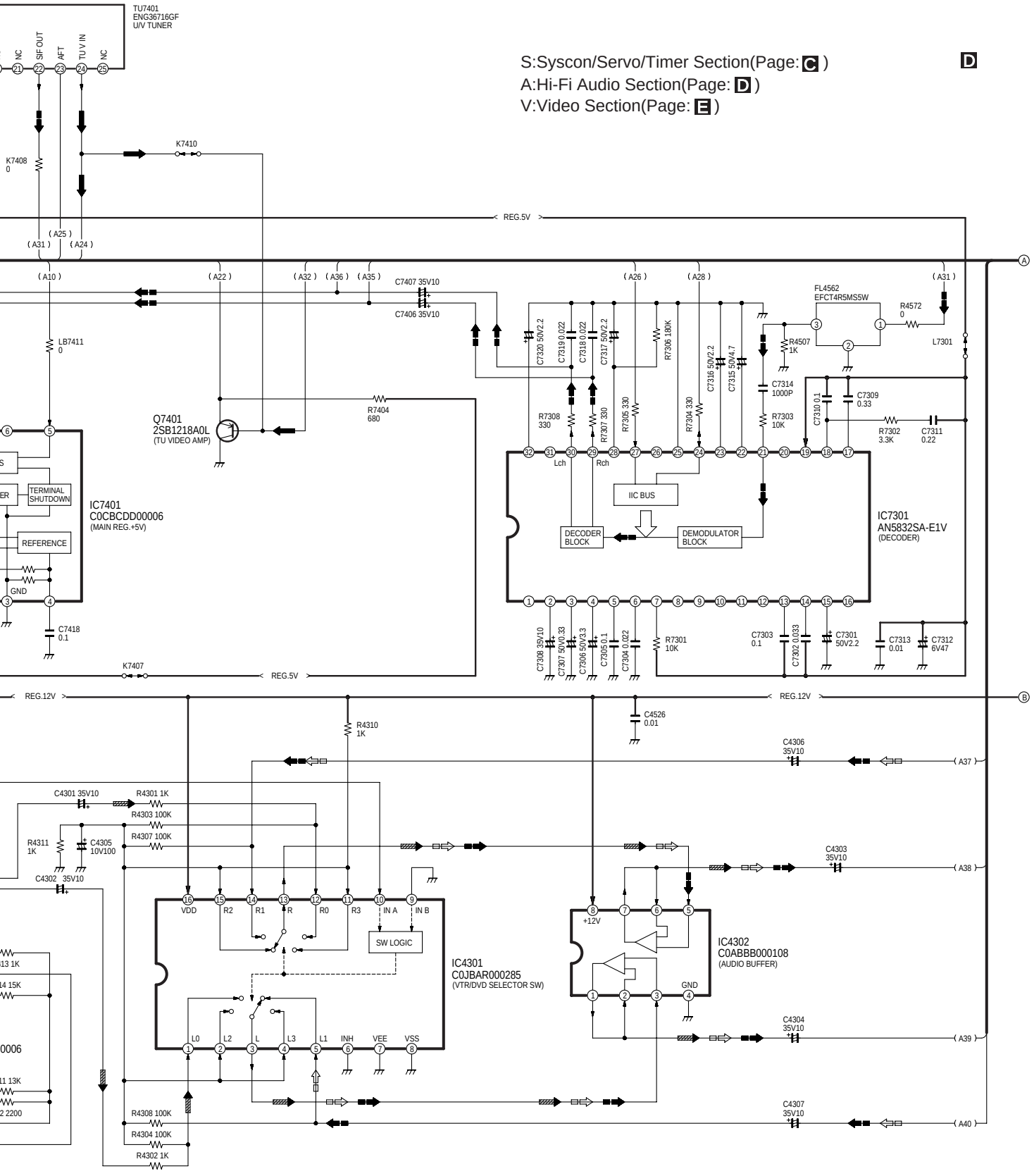
DMR-E75VP
Syscon/Servo/Timer Section
(Main P.C.B.(1/3)
Schematic Diagram (S)
17
18
19
20
21
22

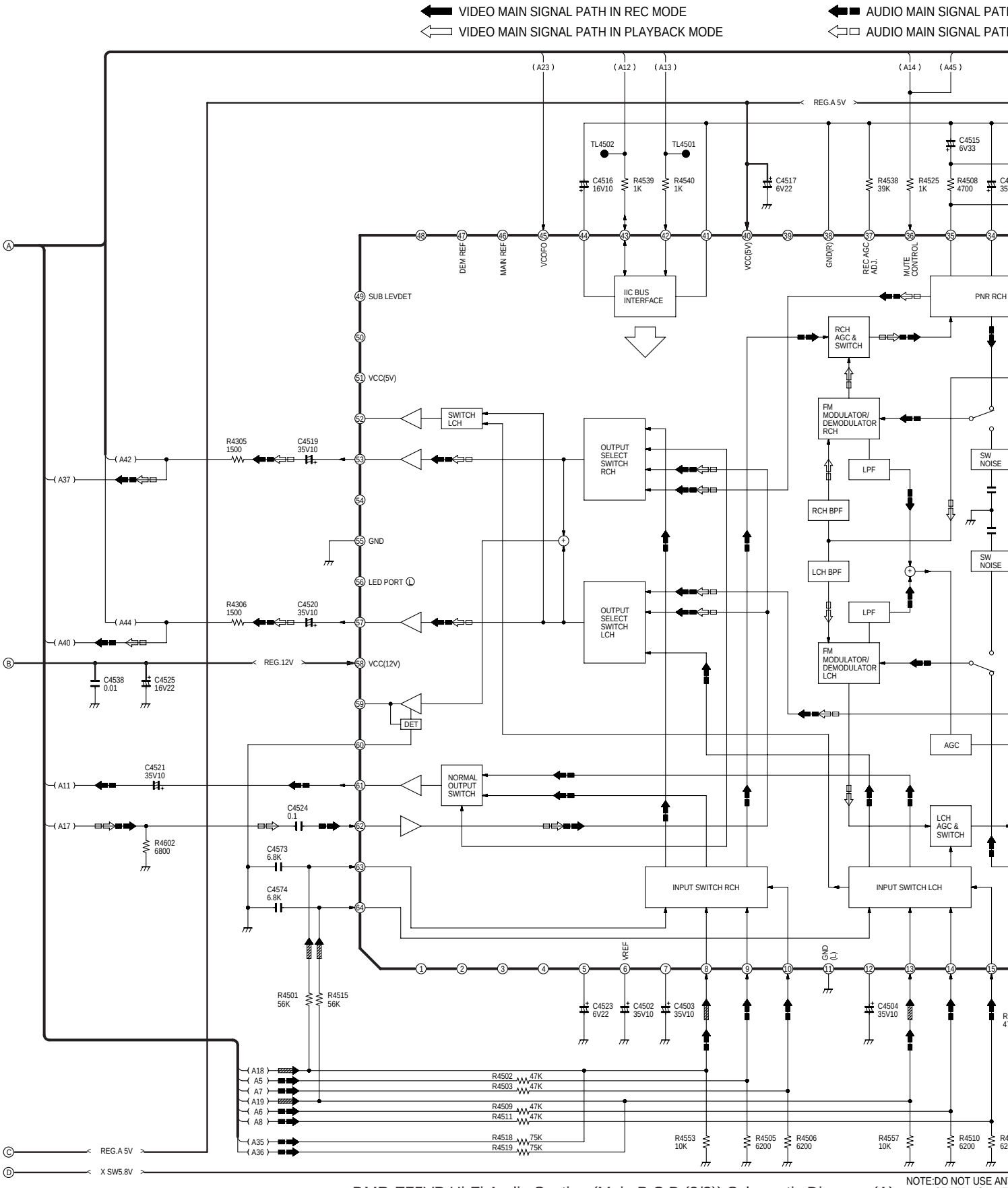
22.5. Hi-Fi Audio Section (Main P.C.B.(2/3)) Schematic Diagram (A)





DMR-E75VP Hi-Fi Audio Section (Main P.C.B.(2/3)) Schematic Diagram (A)

6 | 7 | 8 | 9 | 10 | 11

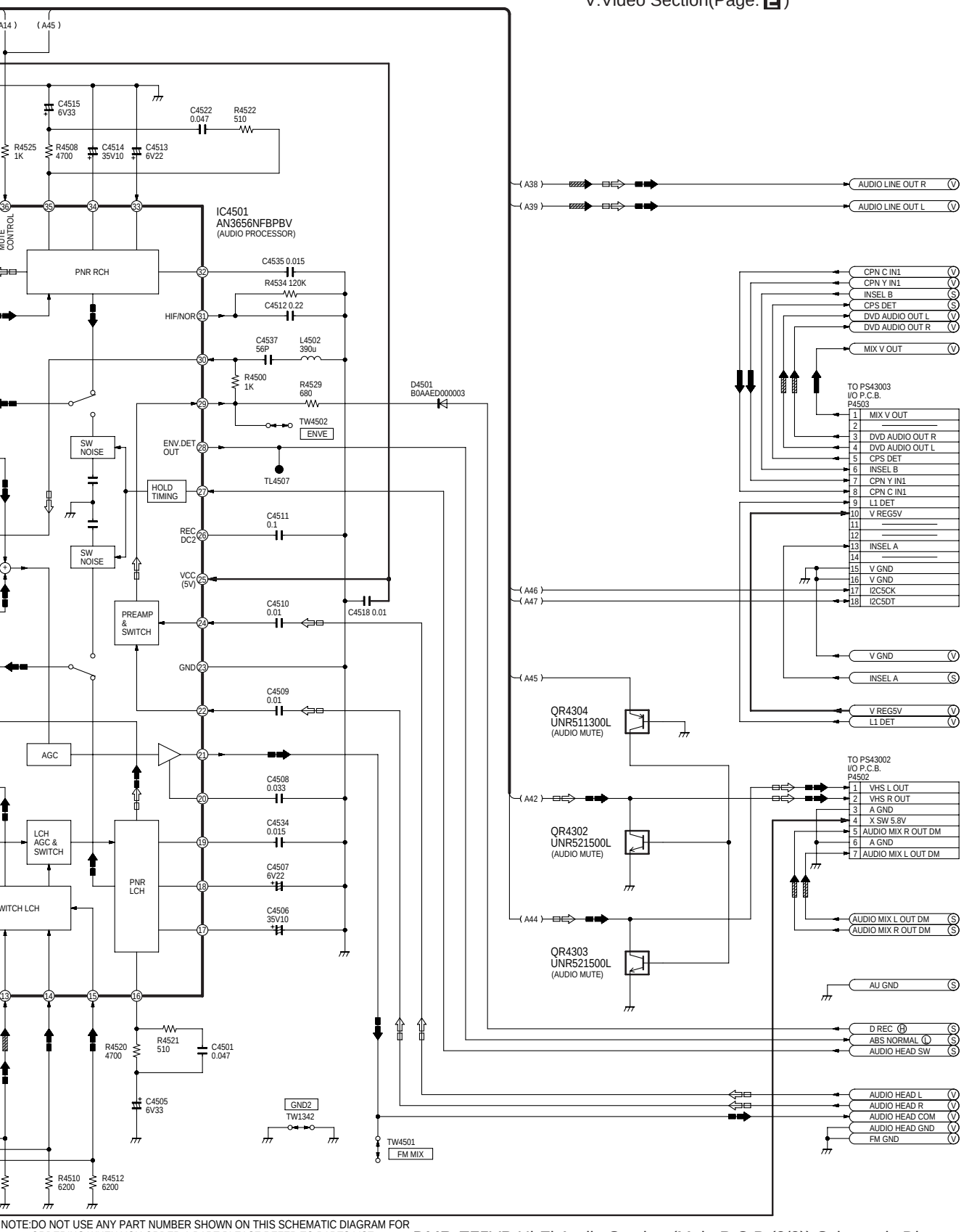


DMR-E75VP Hi-Fi Audio Section (Main P.C.B.(2/3)) Schematic Diagram (A)

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE

DVD VIDEO EE SIGNAL
DVD AUDIO EE SIGNAL

S:Syscon/Servo/Timer Section(Page: C)
A:Hi-Fi Audio Section(Page: D)
V:Video Section(Page: E)

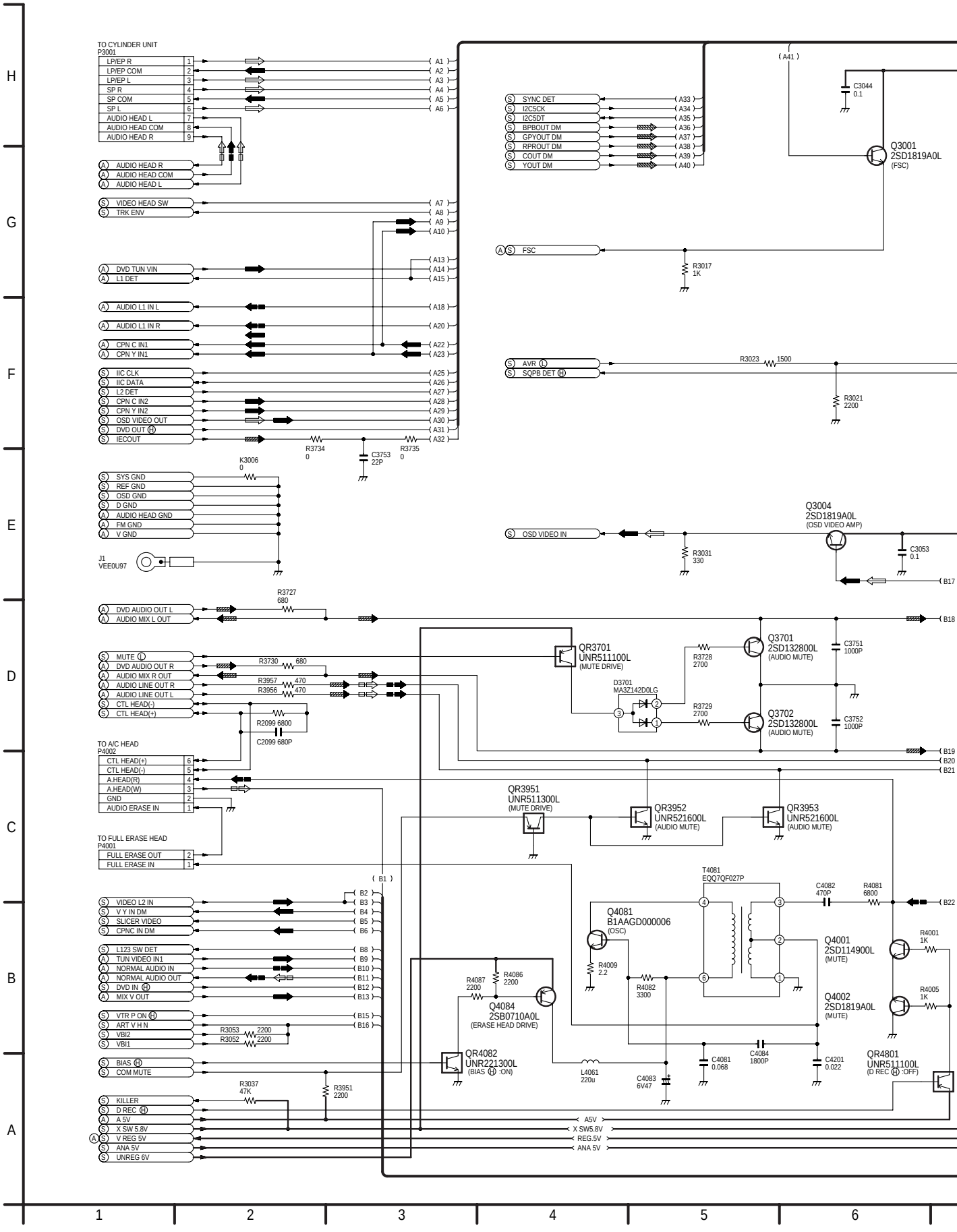


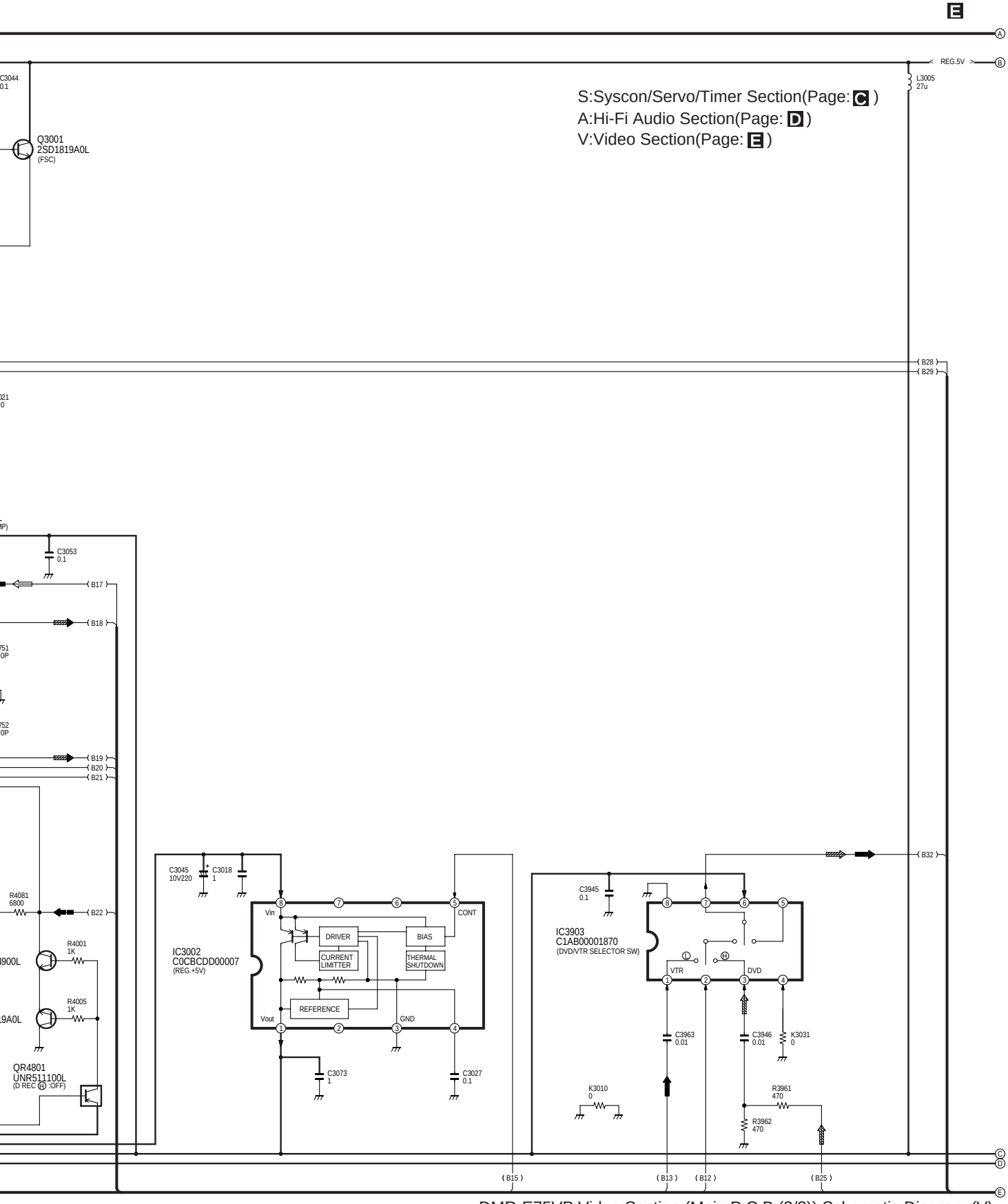
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E75VP Hi-Fi Audio Section (Main P.C.B.(2/3)) Schematic Diagram (A)

17 | 18 | 19 | 20 | 21 | 22

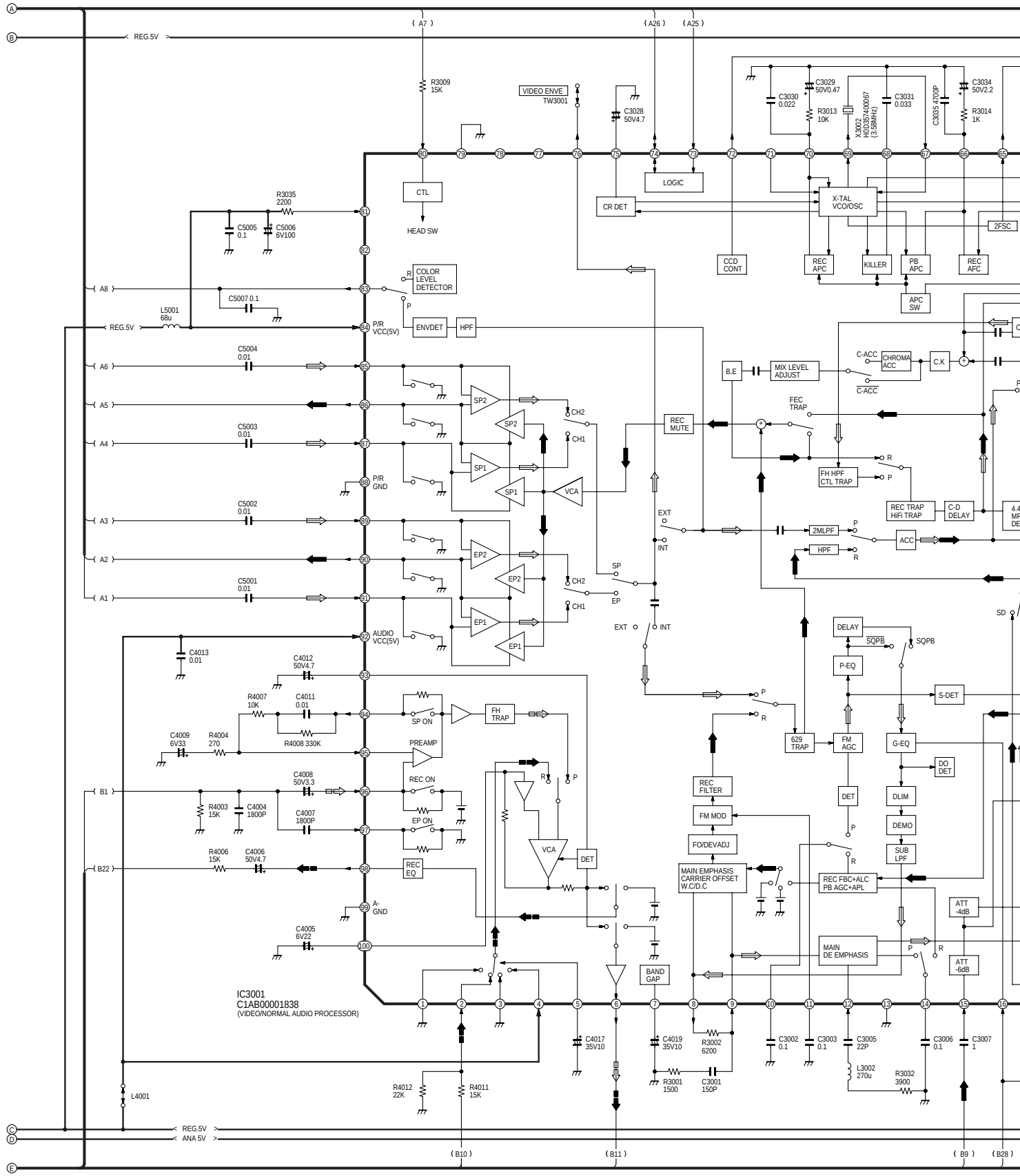
22.6. Video Section (Main P.C.B.(3/3)) Schematic Diagram (V)





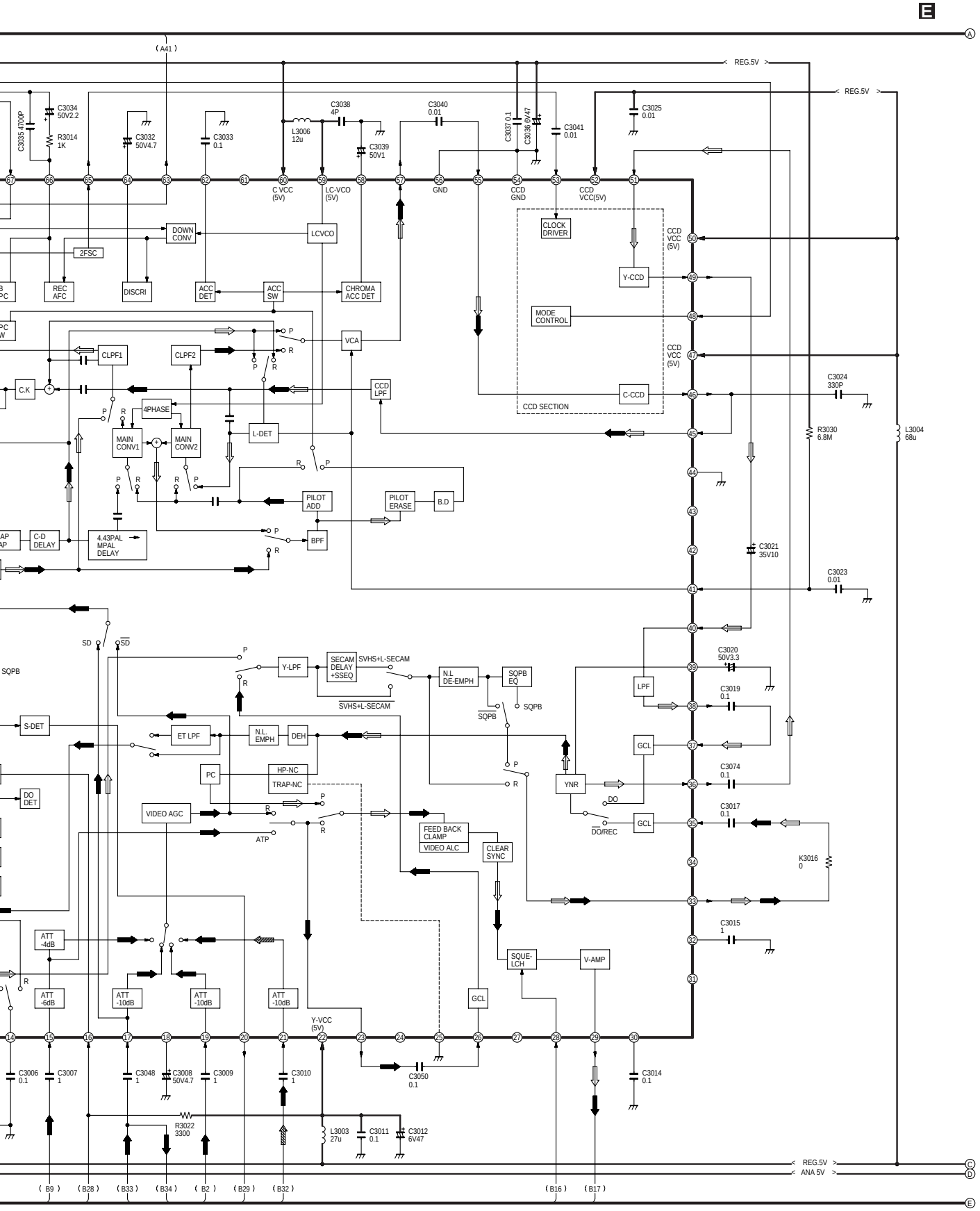
DMR-E75VP Video Section (Main P.C.B.(3/3)) Schematic Diagram (V)

6 | 7 | 8 | 9 | 10 | 11 | 12



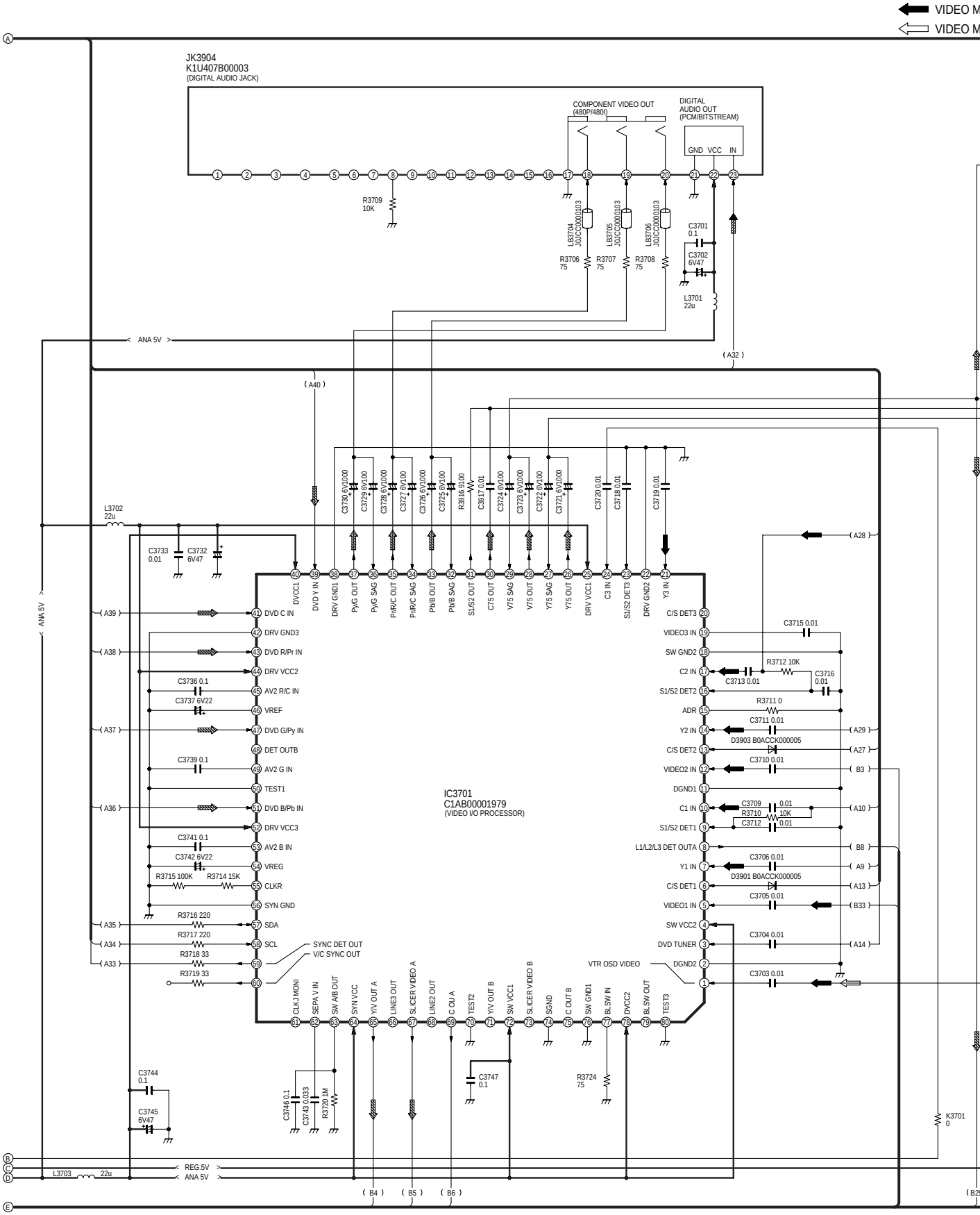
DMR-E75VP Video Section (Main P.C.B.(3/3)) Schematic Diagram (V)

13 | 14 | 15 | 16 | 17 | 18 | 19



DMR-E75VP Video Section (Main P.C.B.(3/3)) Schematic Diagram (V)

19 20 21 22 23 24

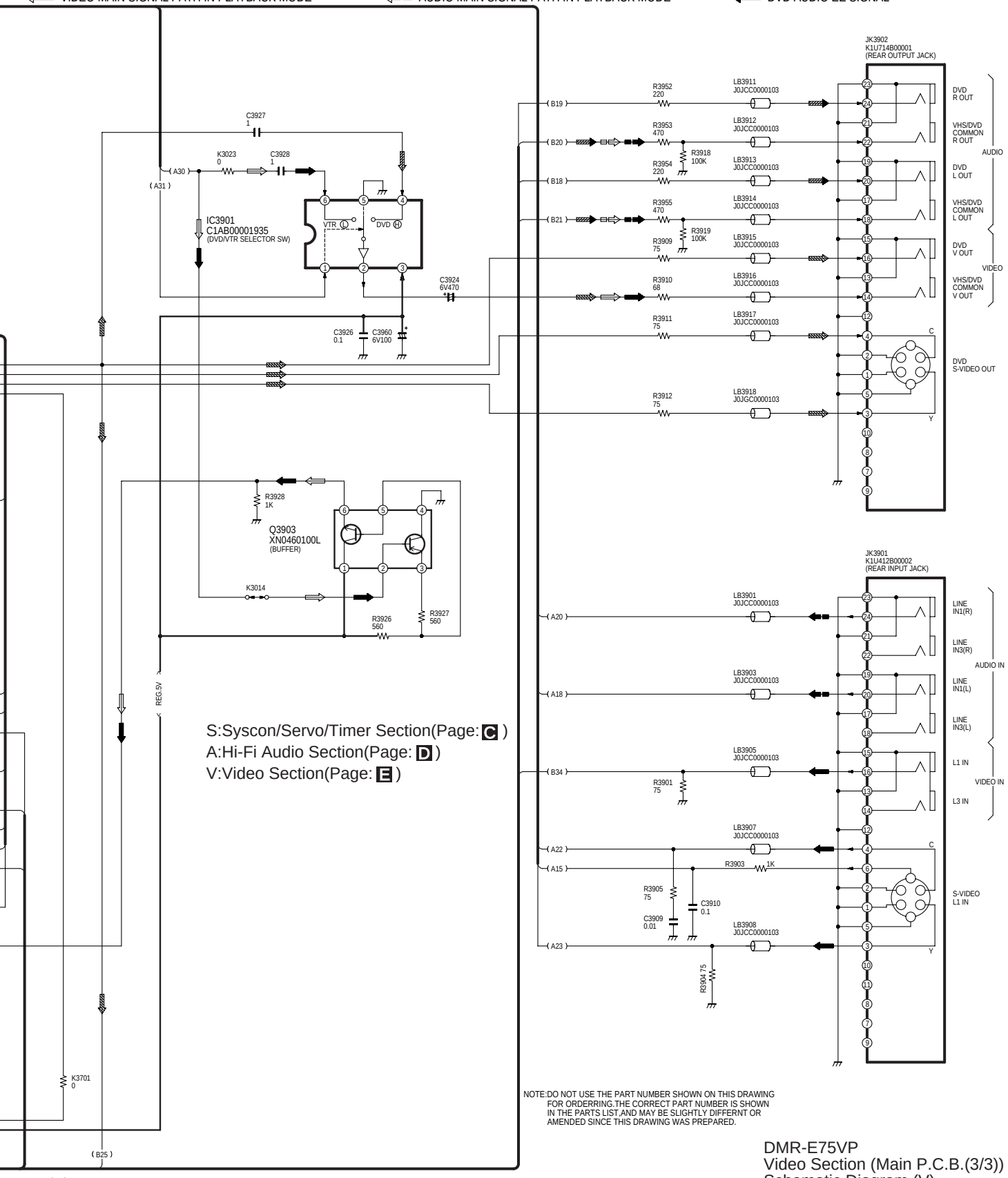


DMR-E75VP Video Section (Main P.C.B.(3/3)) Schematic Diagram (V)

25 26 27 28 29 30

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
DVD VIDEO EE SIGNAL
DVD AUDIO EE SIGNAL

E



S:Syscon/Servo/Timer Section(Page: C)
A:Hi-Fi Audio Section(Page: D)
V:Video Section(Page: E)

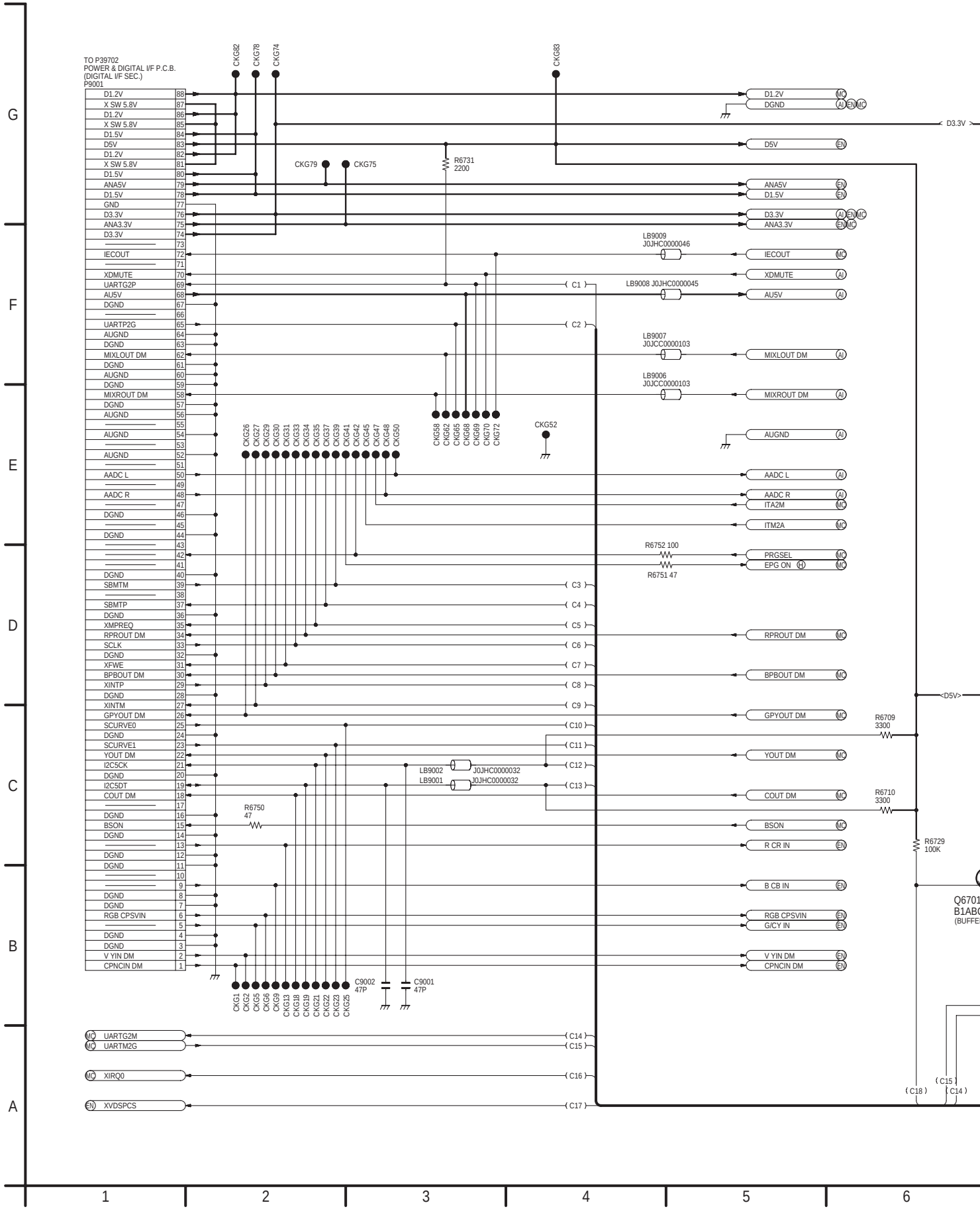
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
Video Section (Main P.C.B.(3/3))
Schematic Diagram (V)

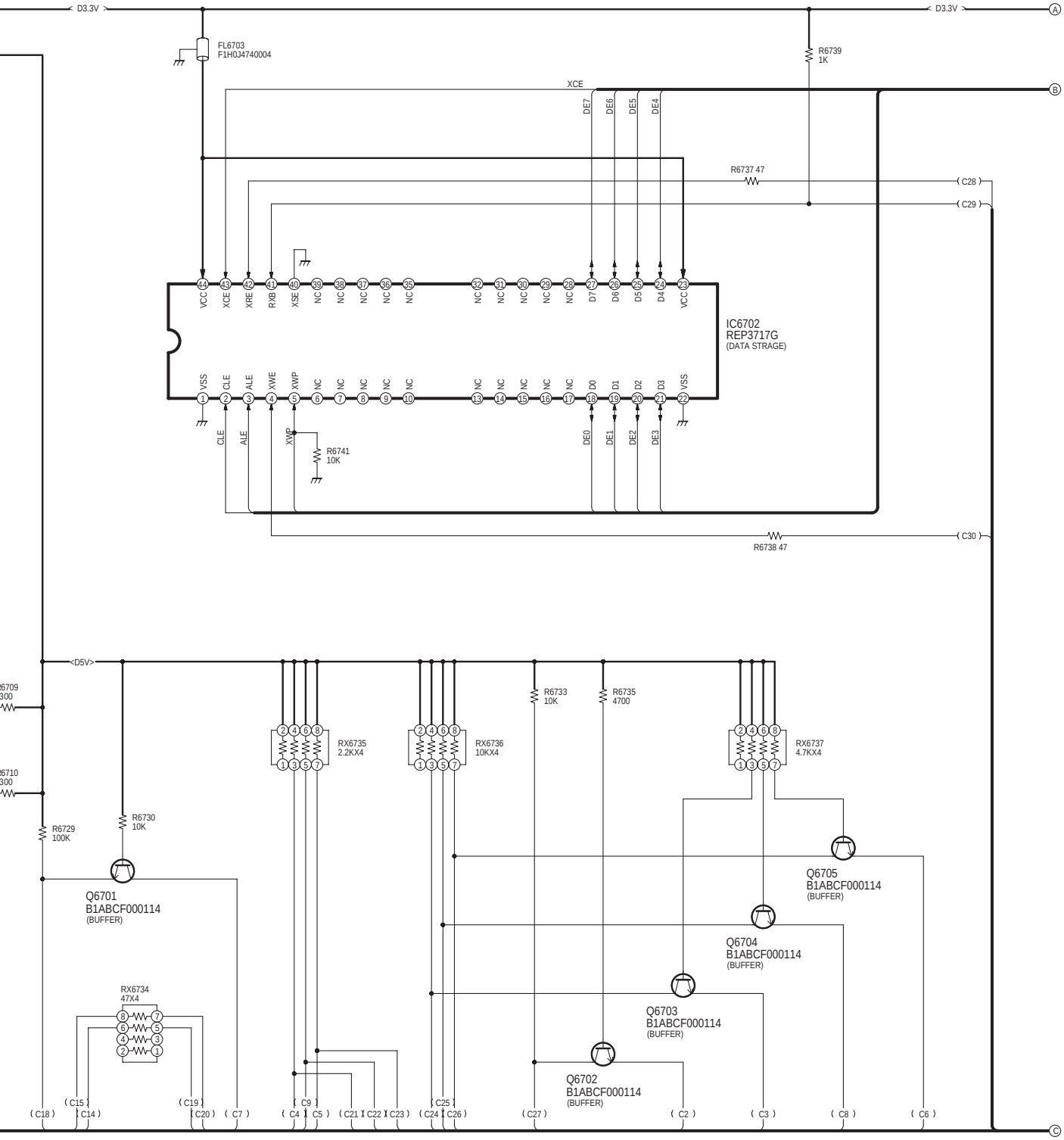
agram (V)

31 32 33 34 35 36

22.7. Glue Net Section (Digital P.C.B.(1/4)) Schematic Diagram (GN)

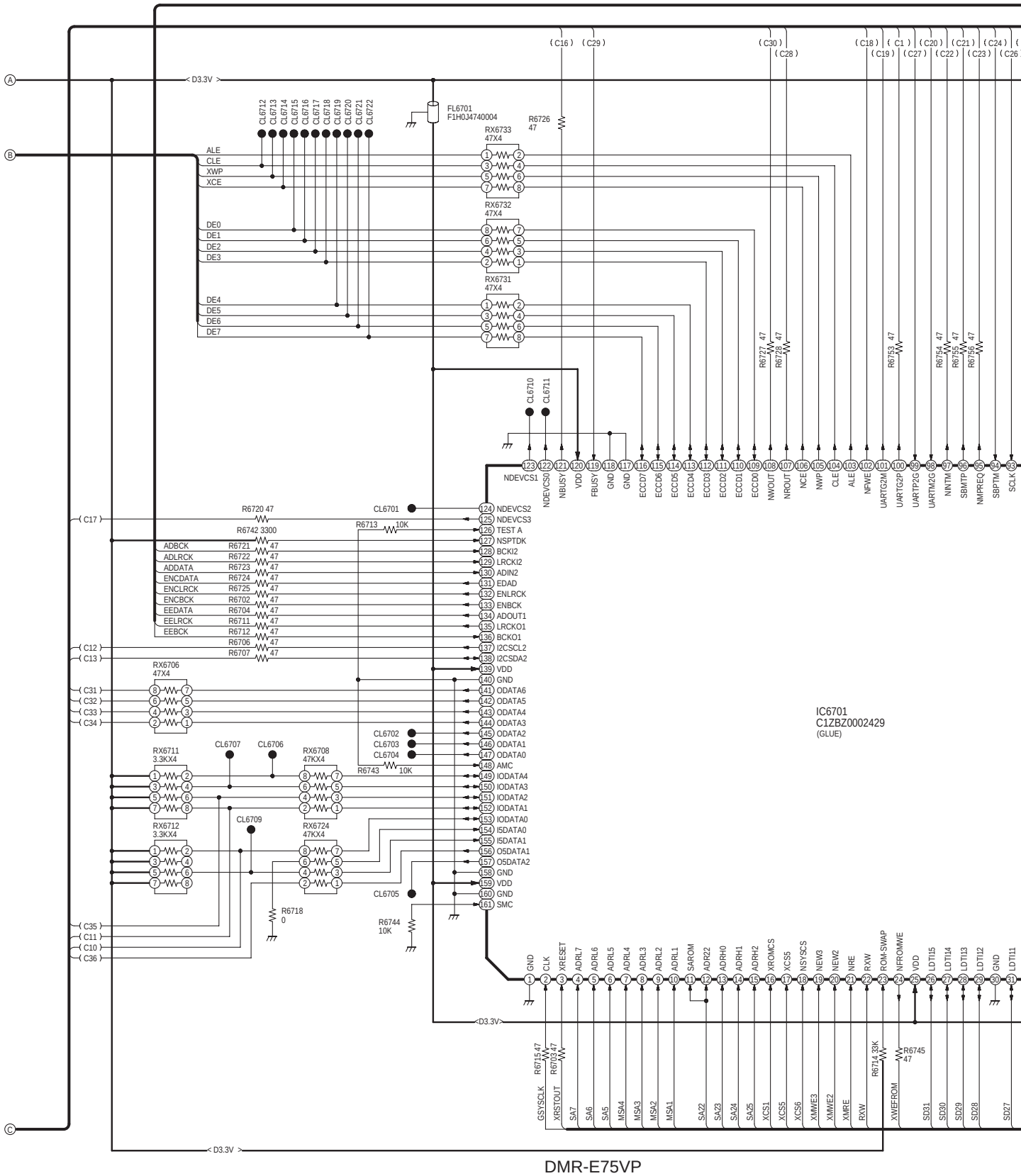


GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)



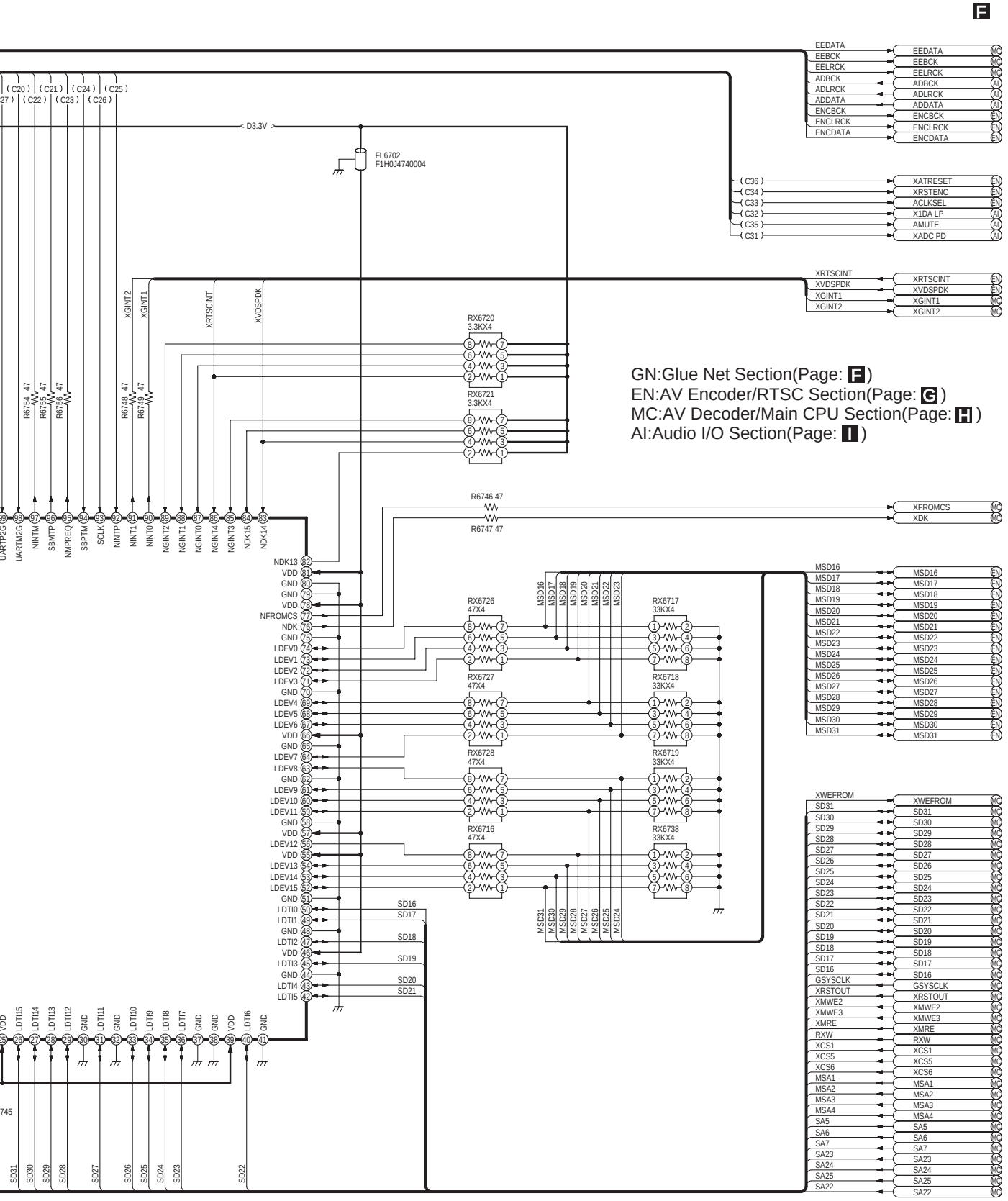
DMR-E75VP
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

6 | 7 | 8 | 9 | 10 | 11



DMR-E75VP
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

NOTE:DO
IN THI

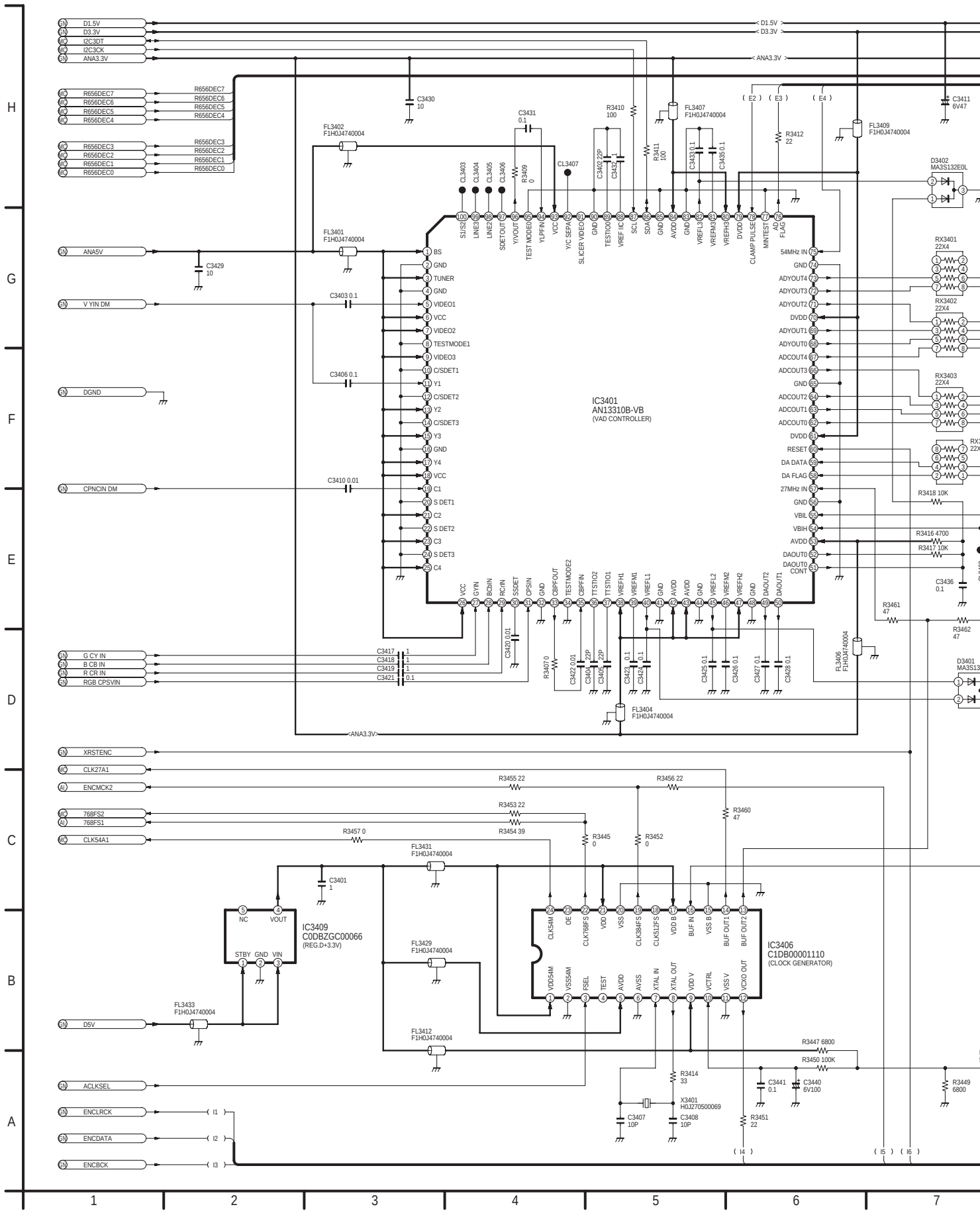


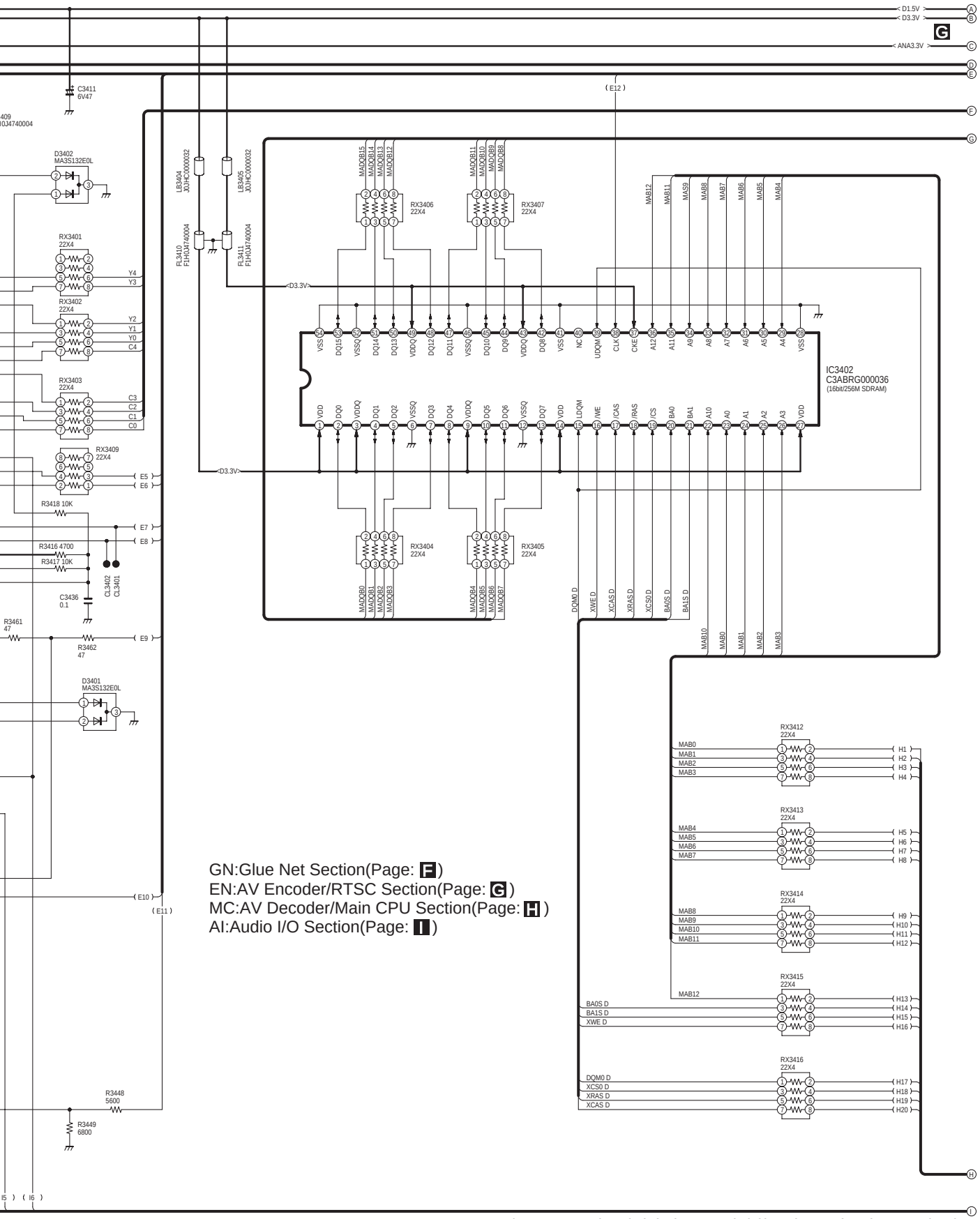
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

17	18	19	20	21	22

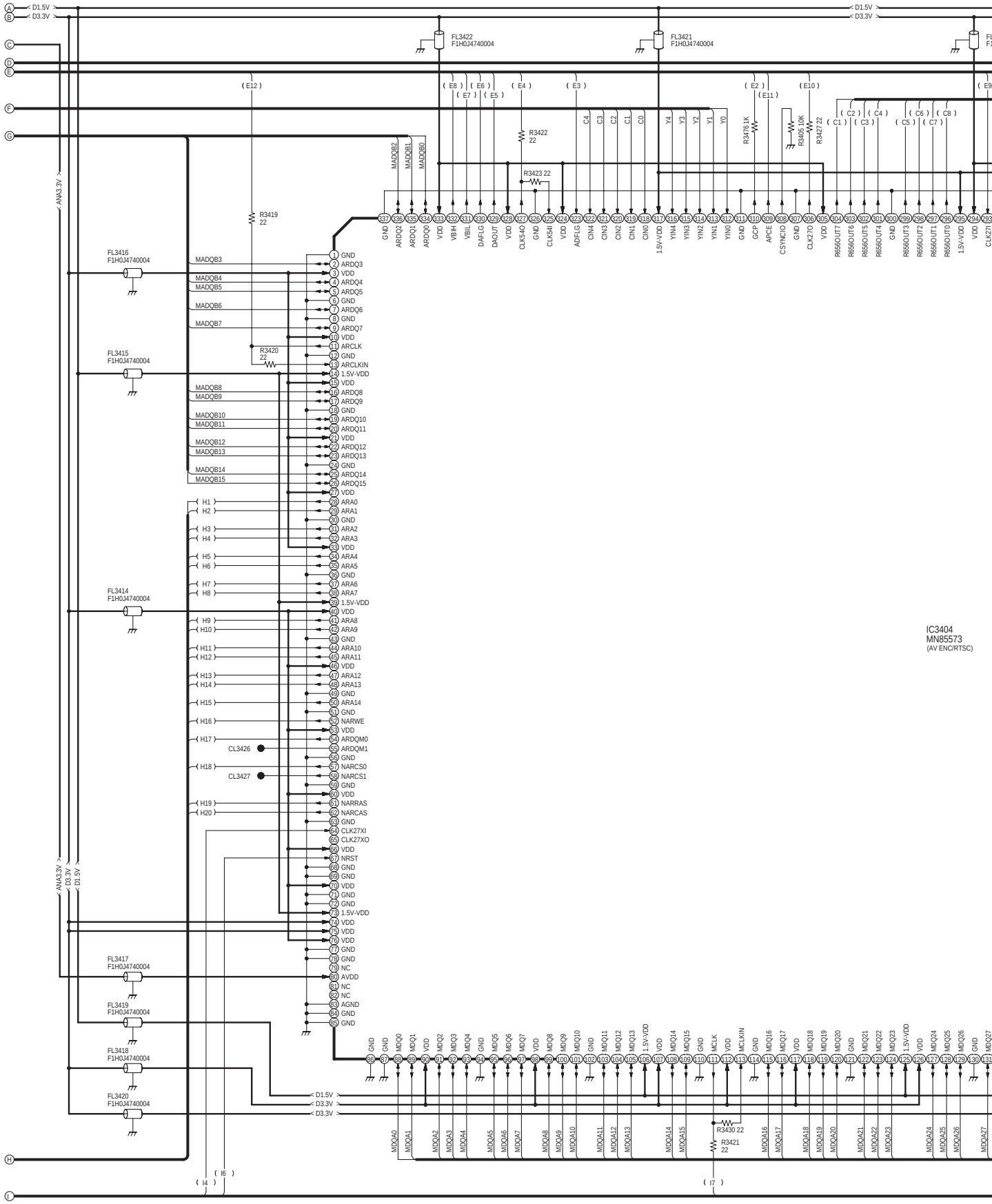
22.8. AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)





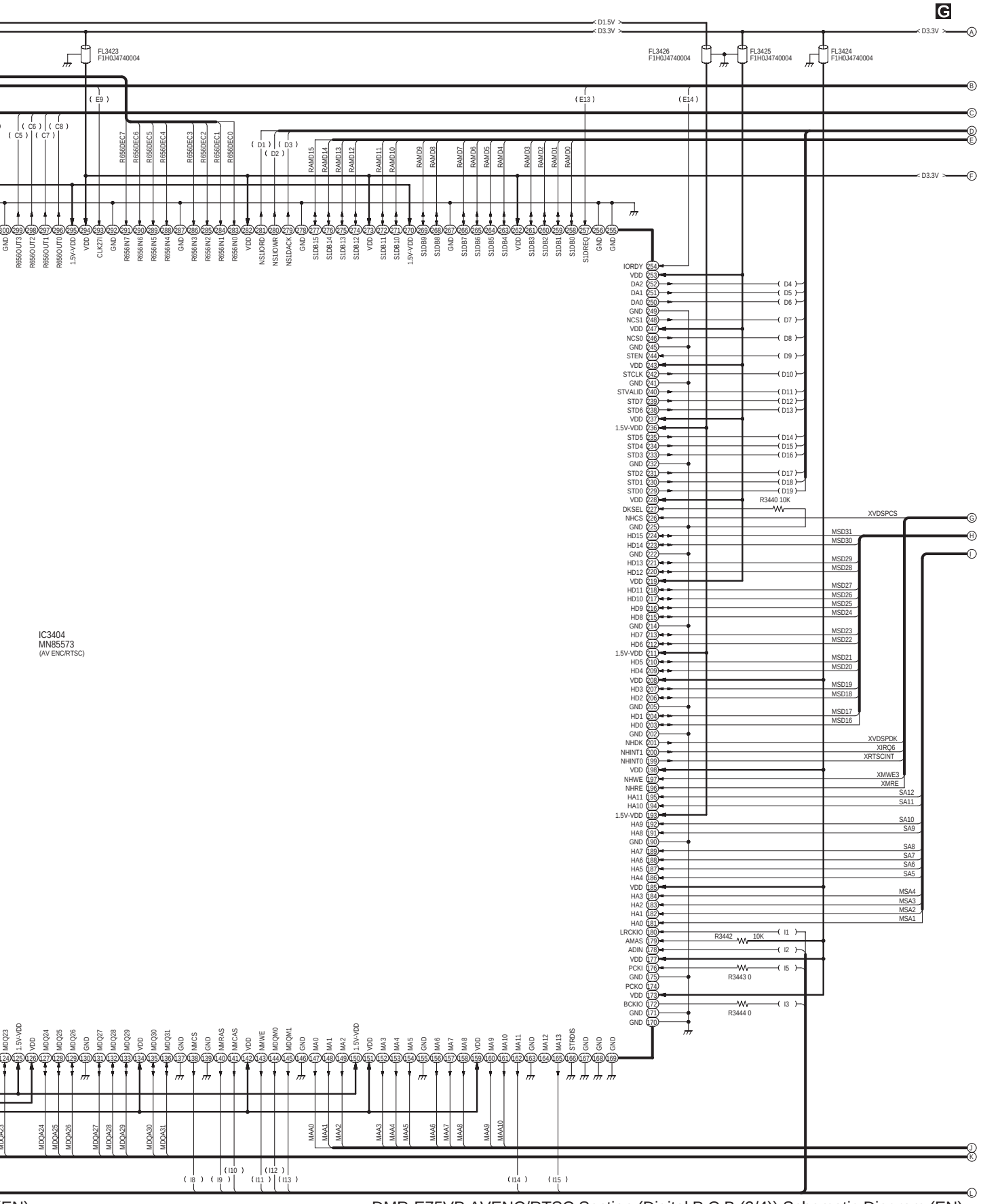
DMR-E75VP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

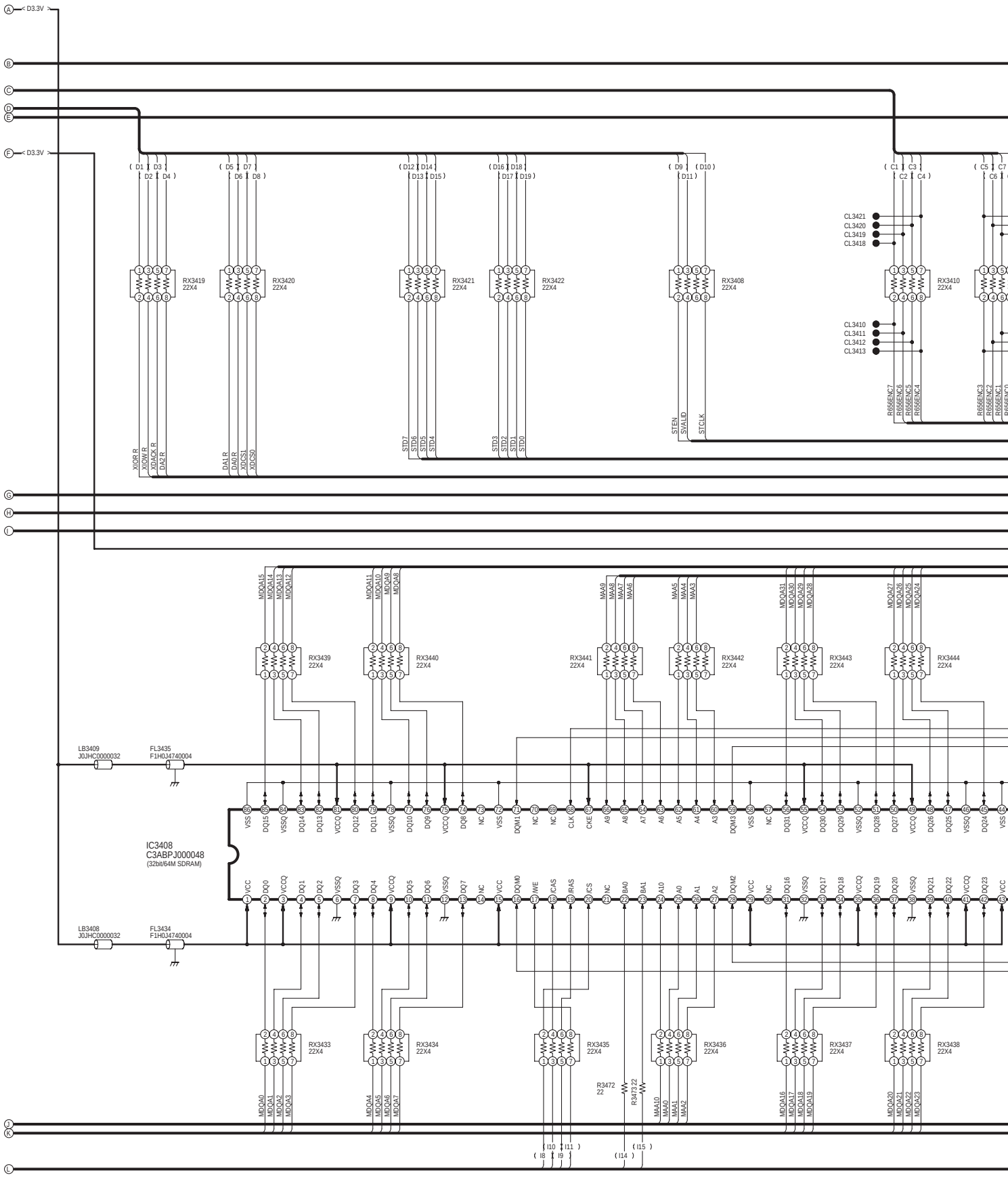
7 | 8 | 9 | 10 | 11 | 12 | 13



DMR-E75VP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

13 14 15 16 17 18 19

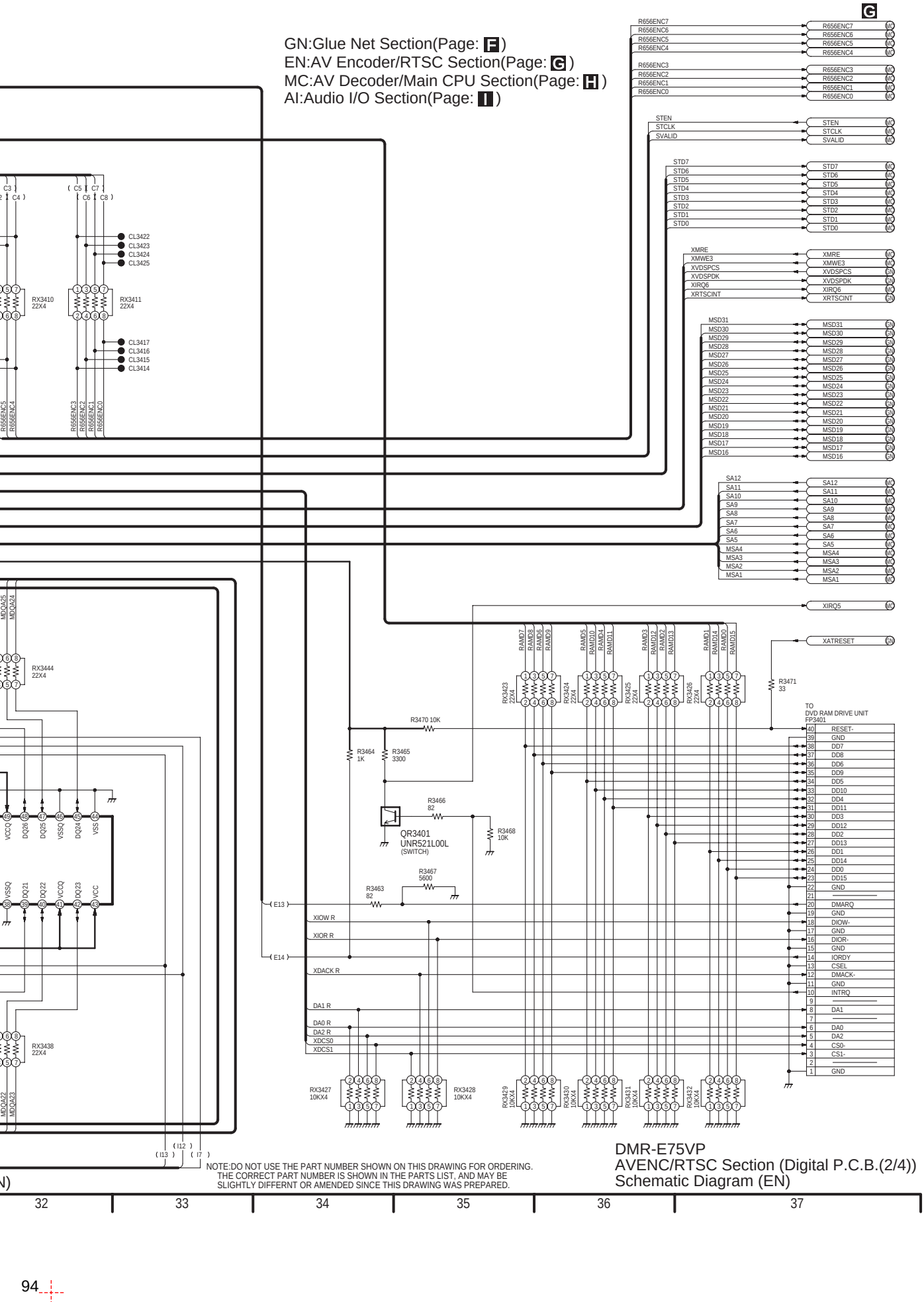

G
D1.5V
D3.3V
FL3423
F1H0J4740004
FL3426
F1H0J4740004
FL3425
F1H0J4740004
FL3424
F1H0J4740004
IC3404
MN85573
(AV ENC/RTSC)
R3440 10K
R3442 10K
R3443 0
R3444 0
XVDSPCS
XVDSPDK
XIRQ6
XRTSCINT
XMWE3
XMRE
MSD31
MSD30
MSD29
MSD28
MSD27
MSD26
MSD25
MSD24
MSD23
MSD22
MSD21
MSD20
MSD19
MSD18
MSD17
MSD16
SA12
SA11
SA10
SA9
SA8
SA7
SA6
SA5
MSA4
MSA3
MSA2
MSA1



DMR-E75VP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

26 27 28 29 30 31 32

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

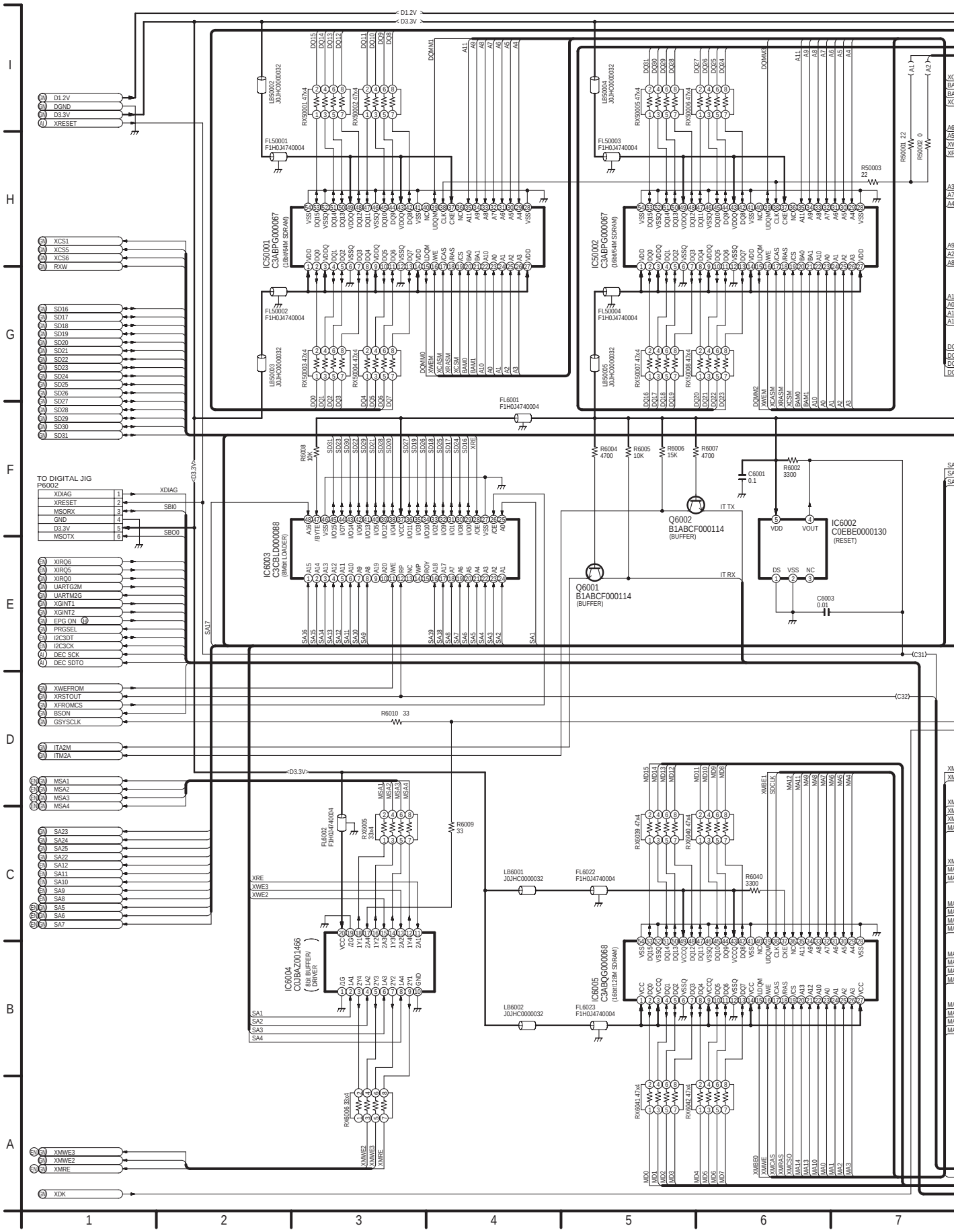


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

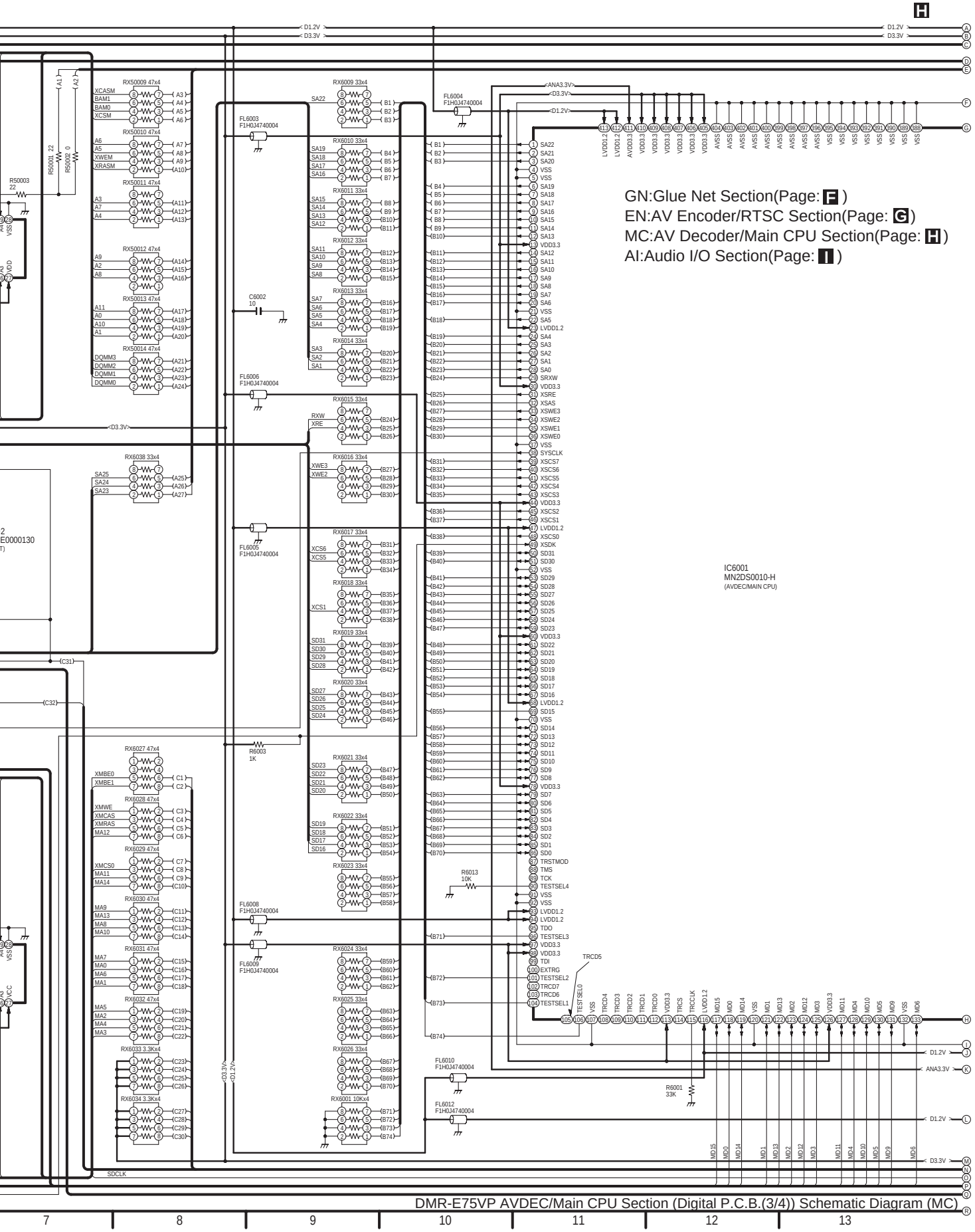
DMR-E75VP
AVENC/RTSC Section (Digital P.C.B.(2/4))
Schematic Diagram (EN)

32 33 34 35 36 37

22.9. AV Decoder/Main CPU Section (Digital P.C.B.(3/4)) Schematic Diagram (MC

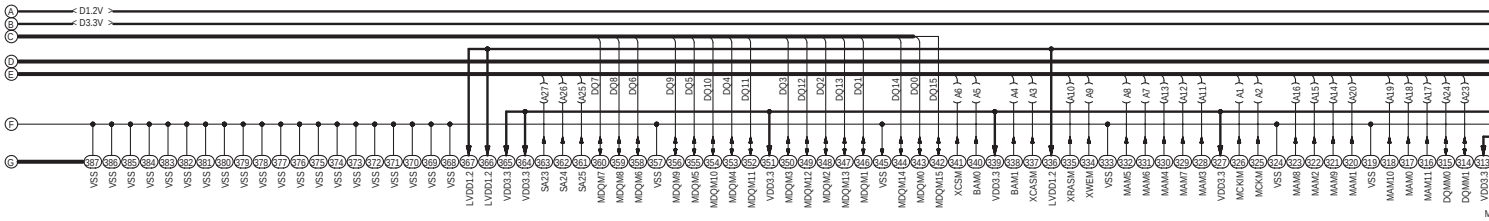


ram (MC)



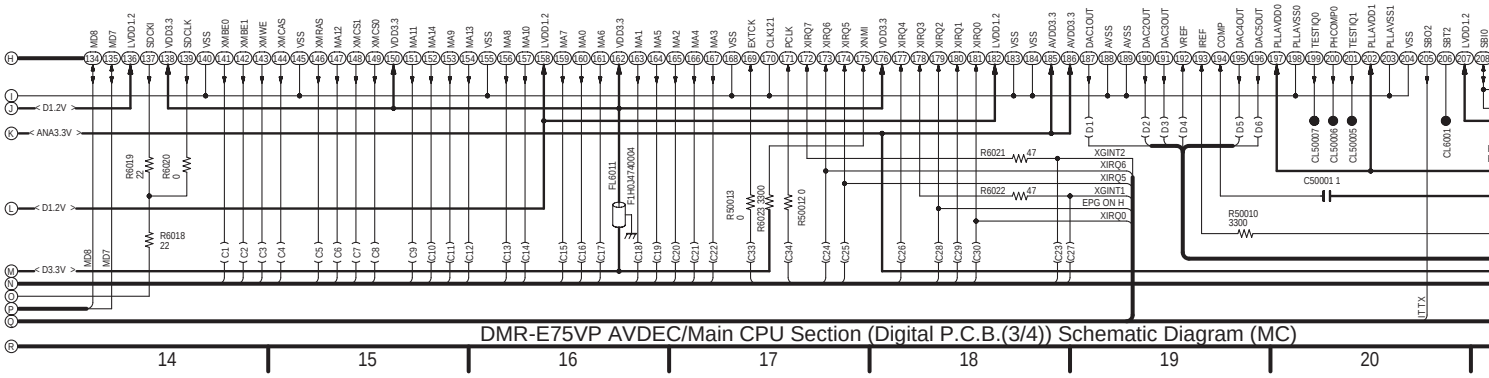
DMR-E75VP AVDEC/Main CPU Section (Digital P.C.B.(3/4)) Schematic Diagram (MC)

7 8 9 10 11 12 13

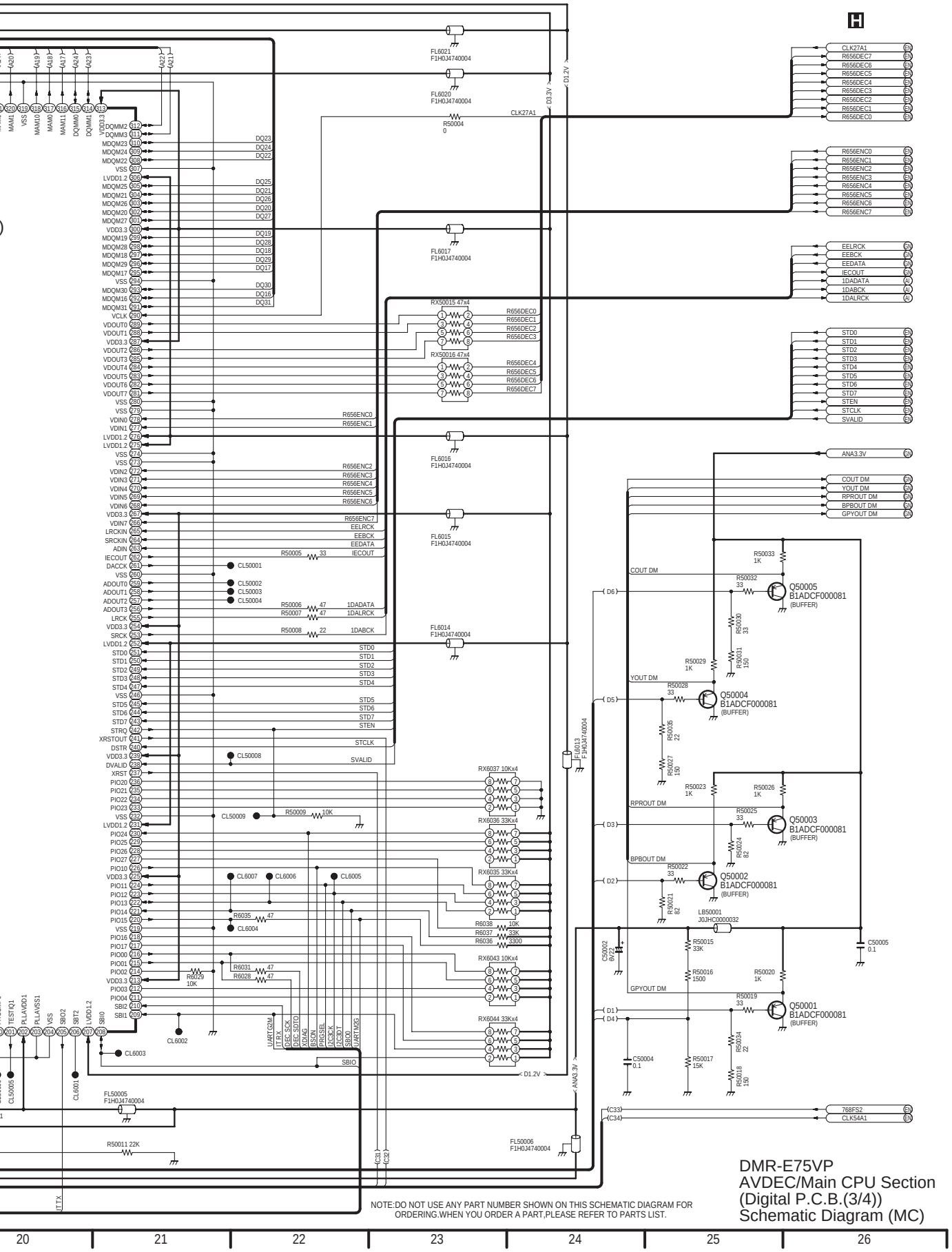


GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

IC6001
MN2DS0010-H
(AVDEC/MAIN CPU)



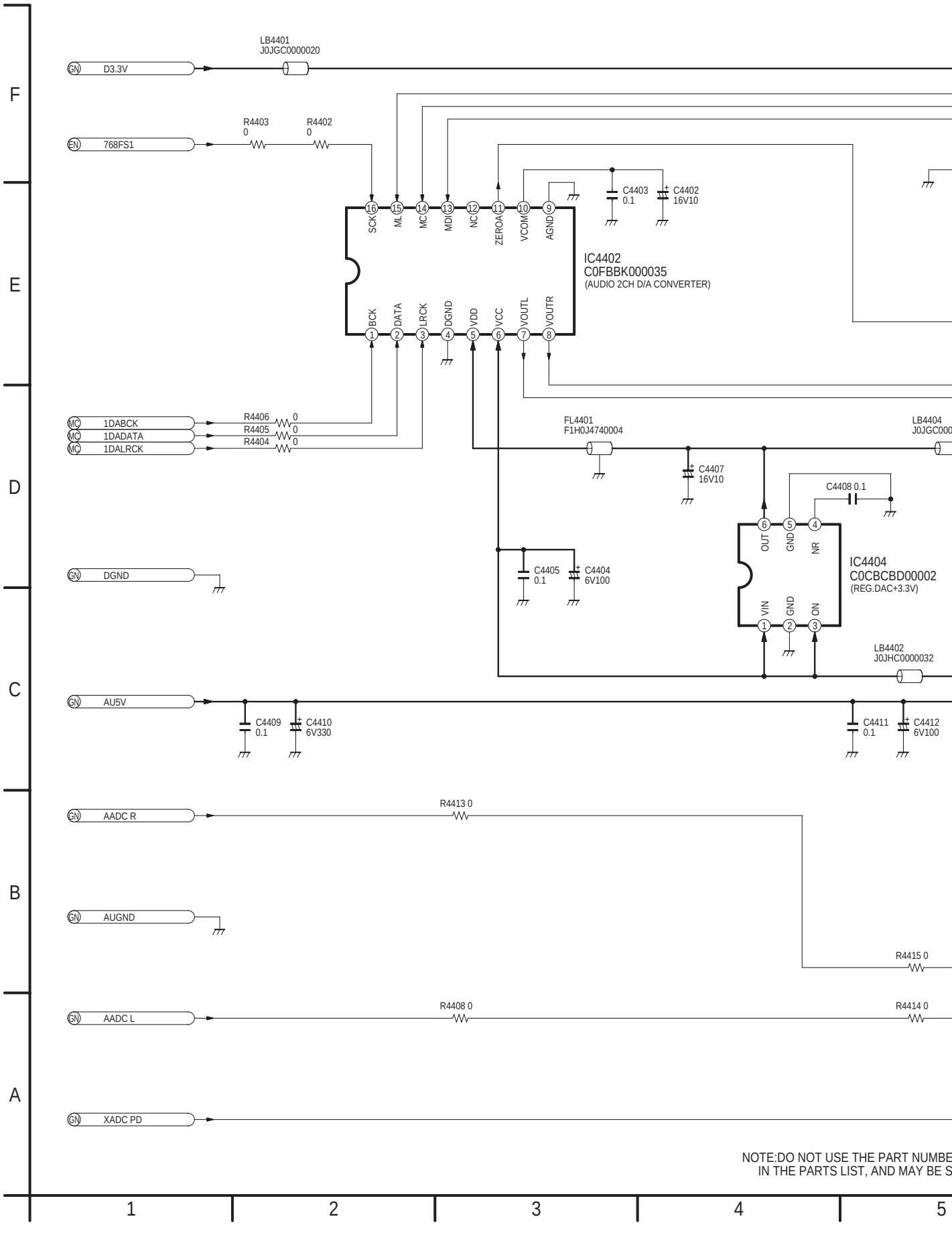
DMR-E75VP AVDEC/Main CPU Section (Digital P.C.B.(3/4)) Schematic Diagram (MC)

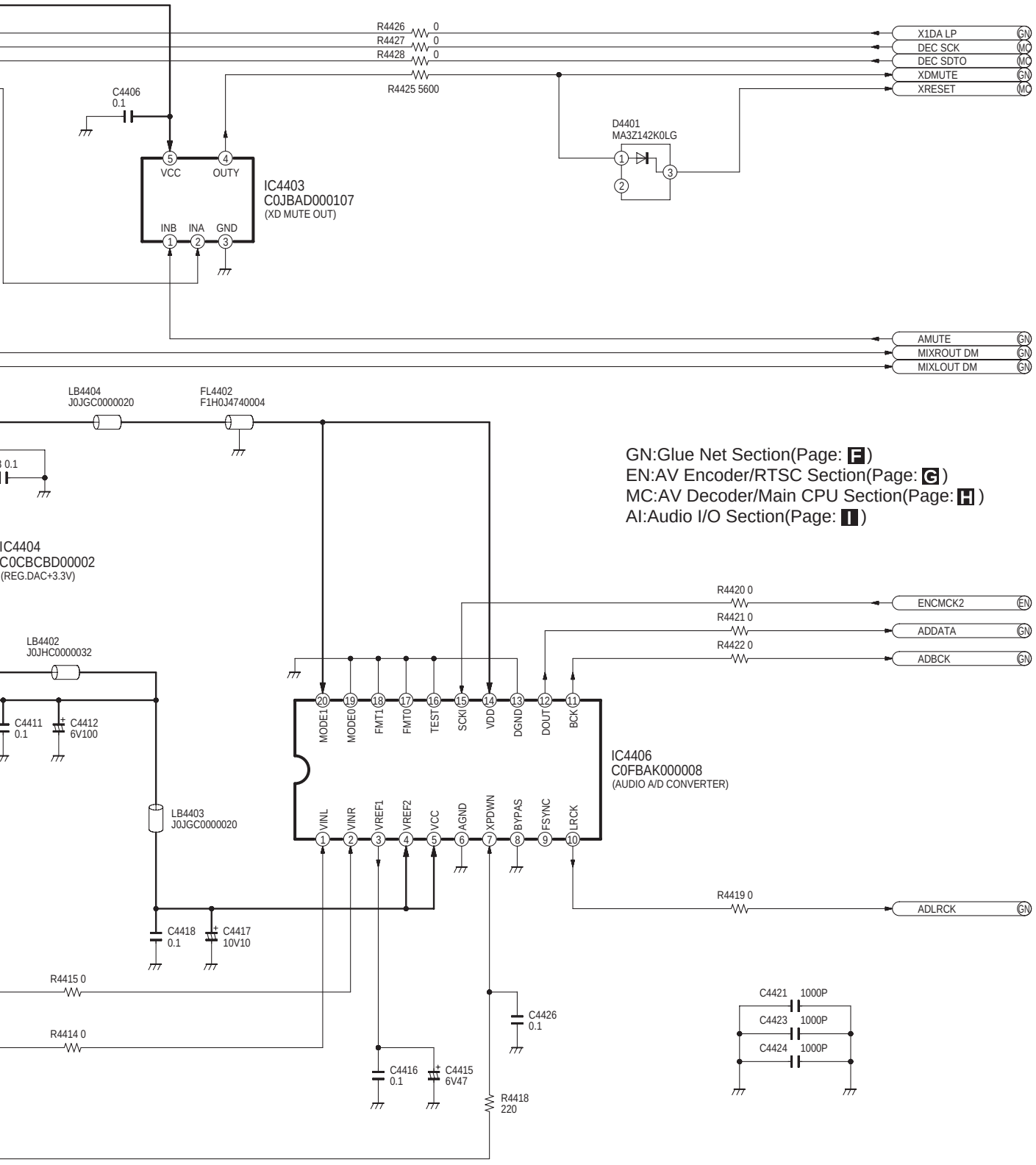


NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E75VP
AVDEC/Main CPU Section
(Digital P.C.B.(3/4))
Schematic Diagram (MC)

22.10. Audio I/O Section (Digital P.C.B.(4/4)) Schematic Diagram (AI)



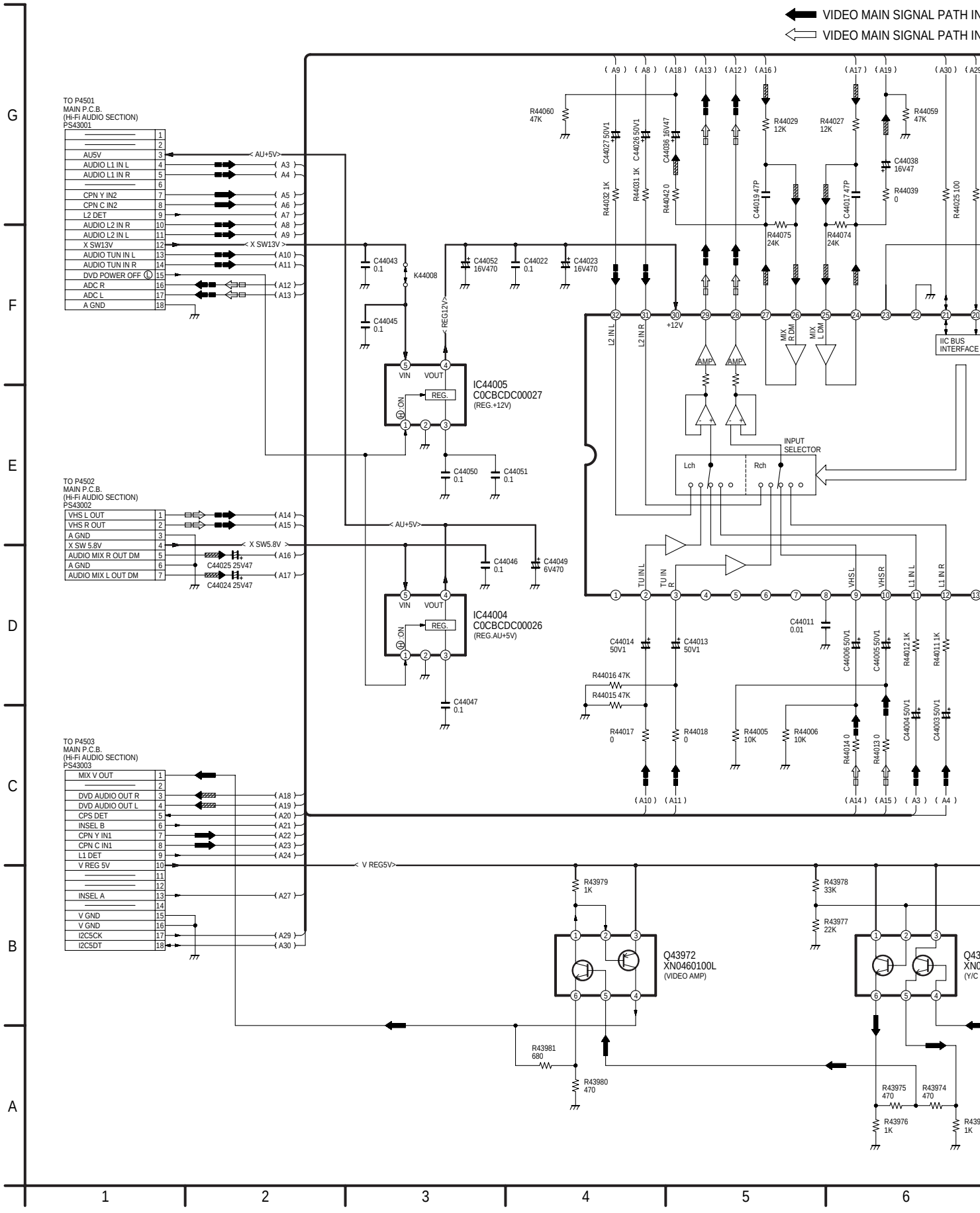


THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
ST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

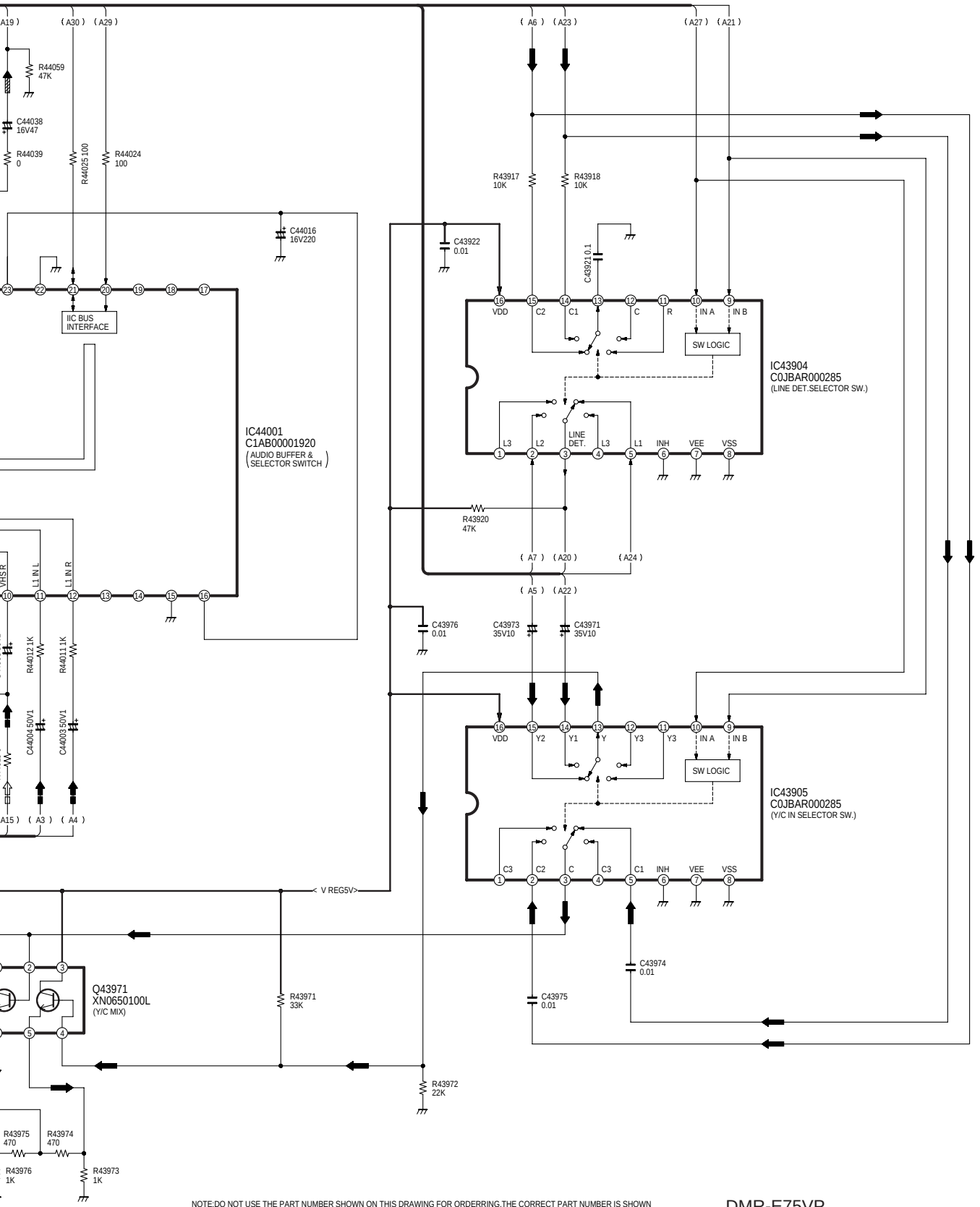
DMR-E75VP
Audio I/O Section
(Digital P.C.B.(4/4))
Schematic Diagram (AI)

5 | 6 | 7 | 8 | 9

22.11. A/V I/O Schematic Diagram



IN SIGNAL PATH IN REC MODE
IN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
DVD AUDIO SIGNAL

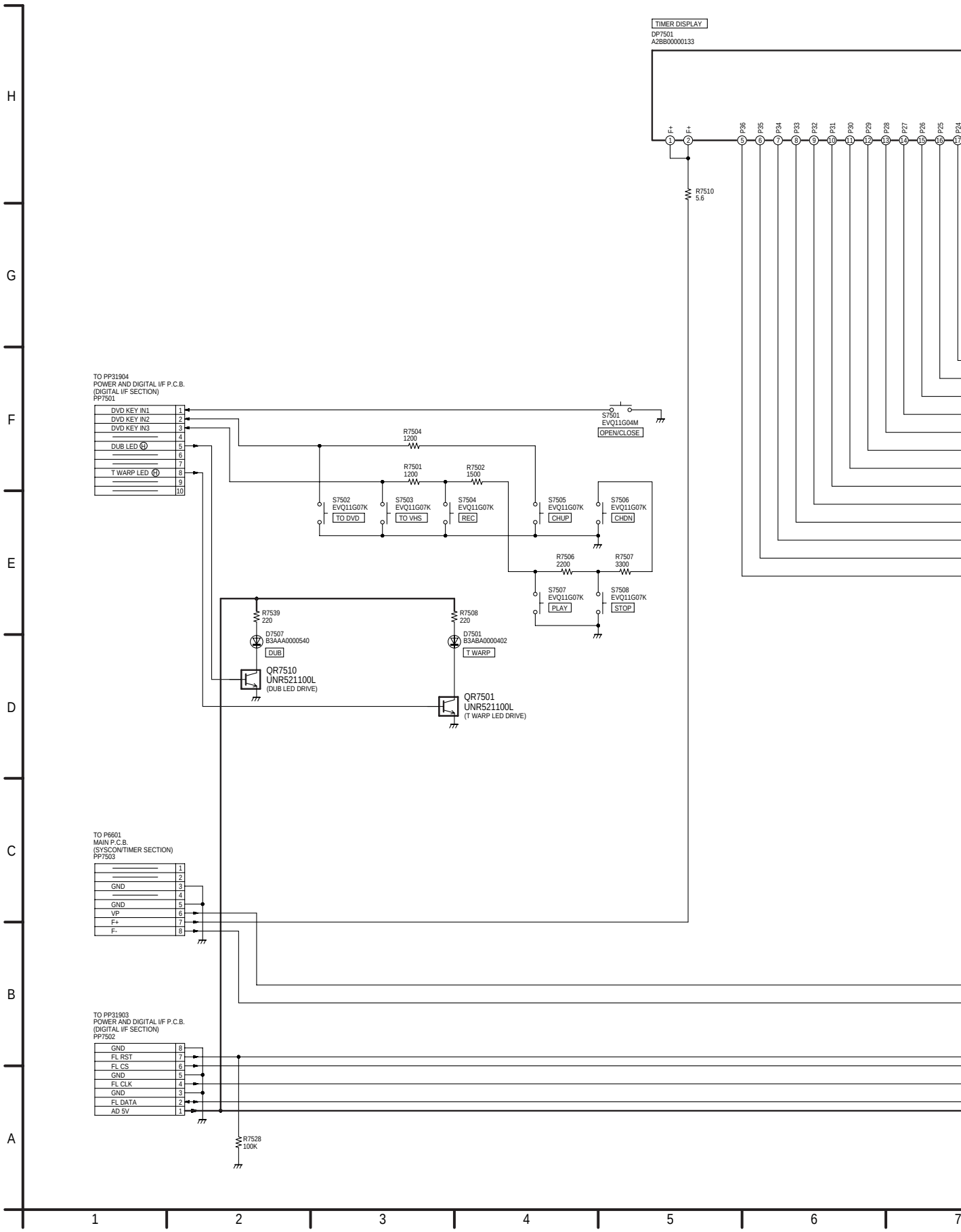


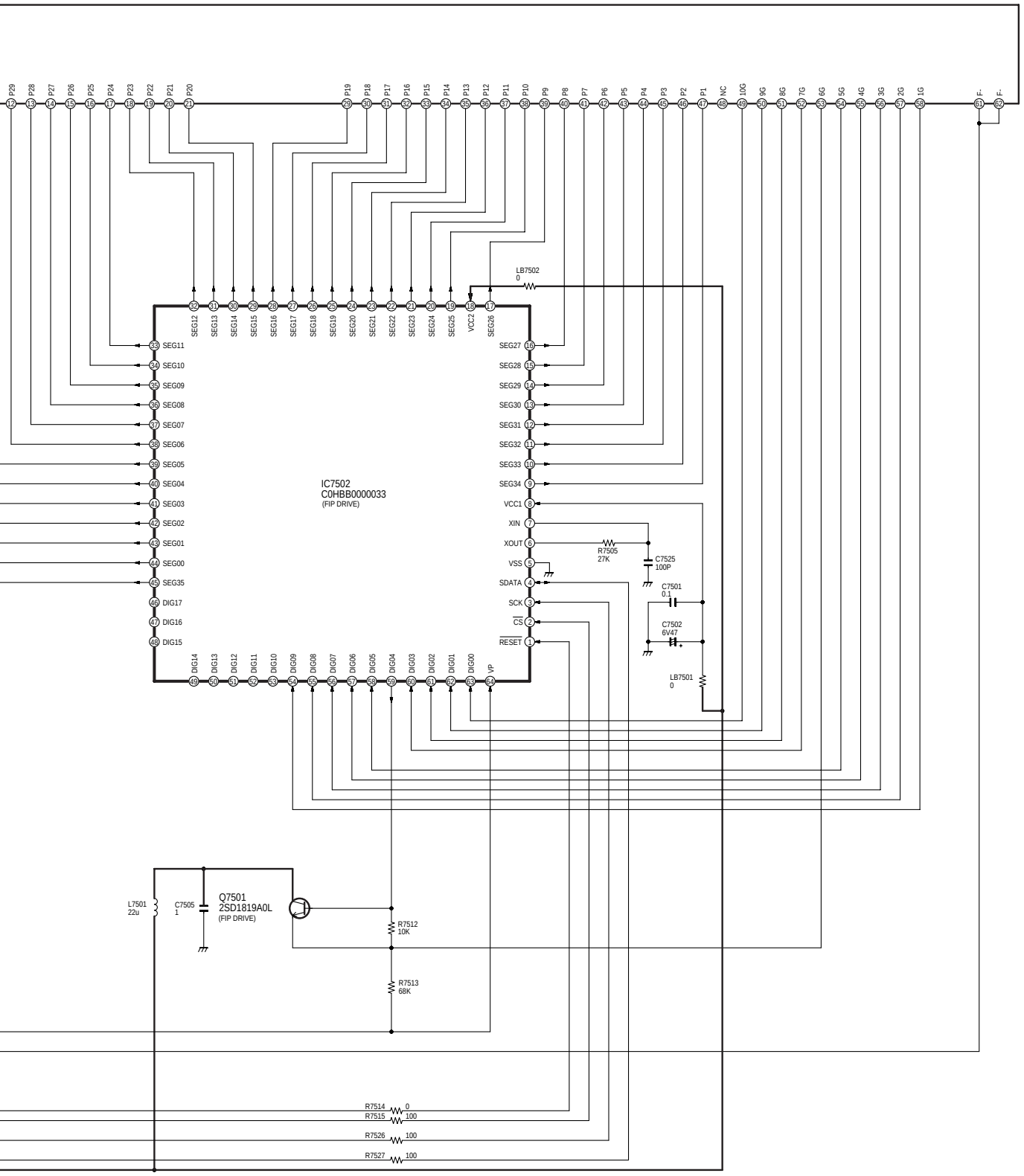
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
Audio/Video I/O Schematic Diagram

6 | 7 | 8 | 9 | 10 | 11

22.12. FL Drive Schematic Diagram

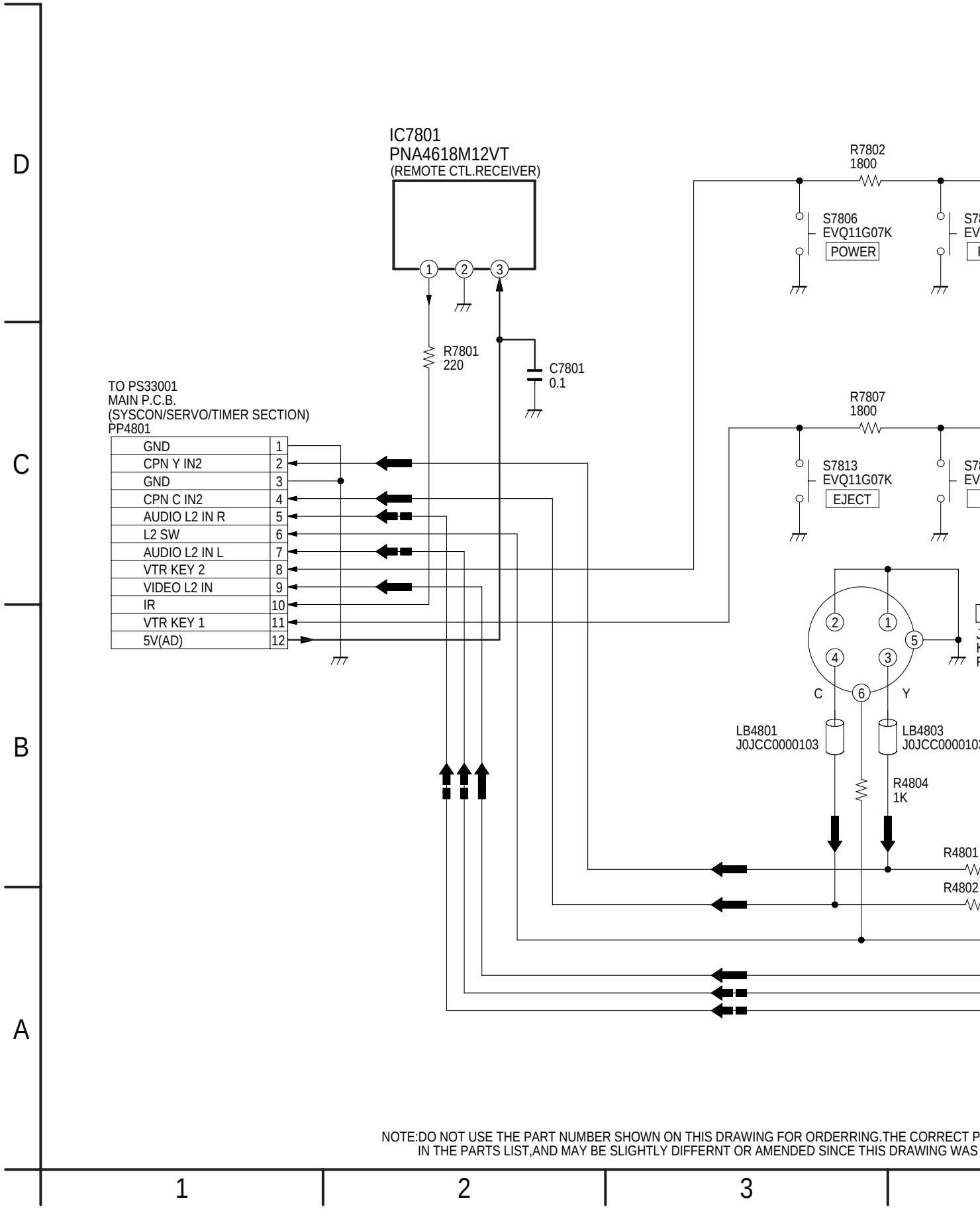




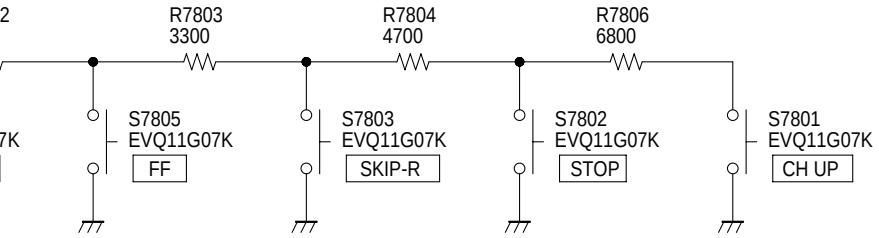
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

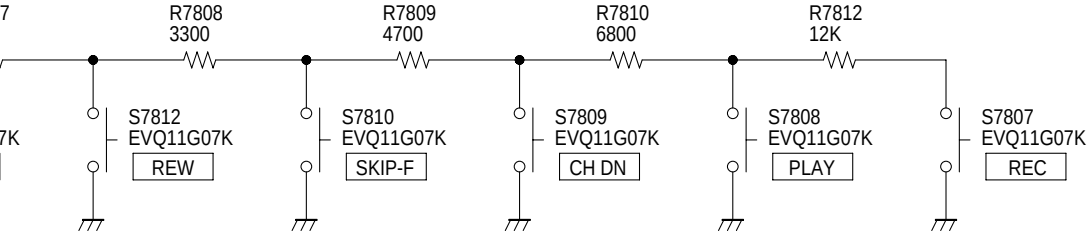
DMR-E75VP
FL Drive Schematic Diagram

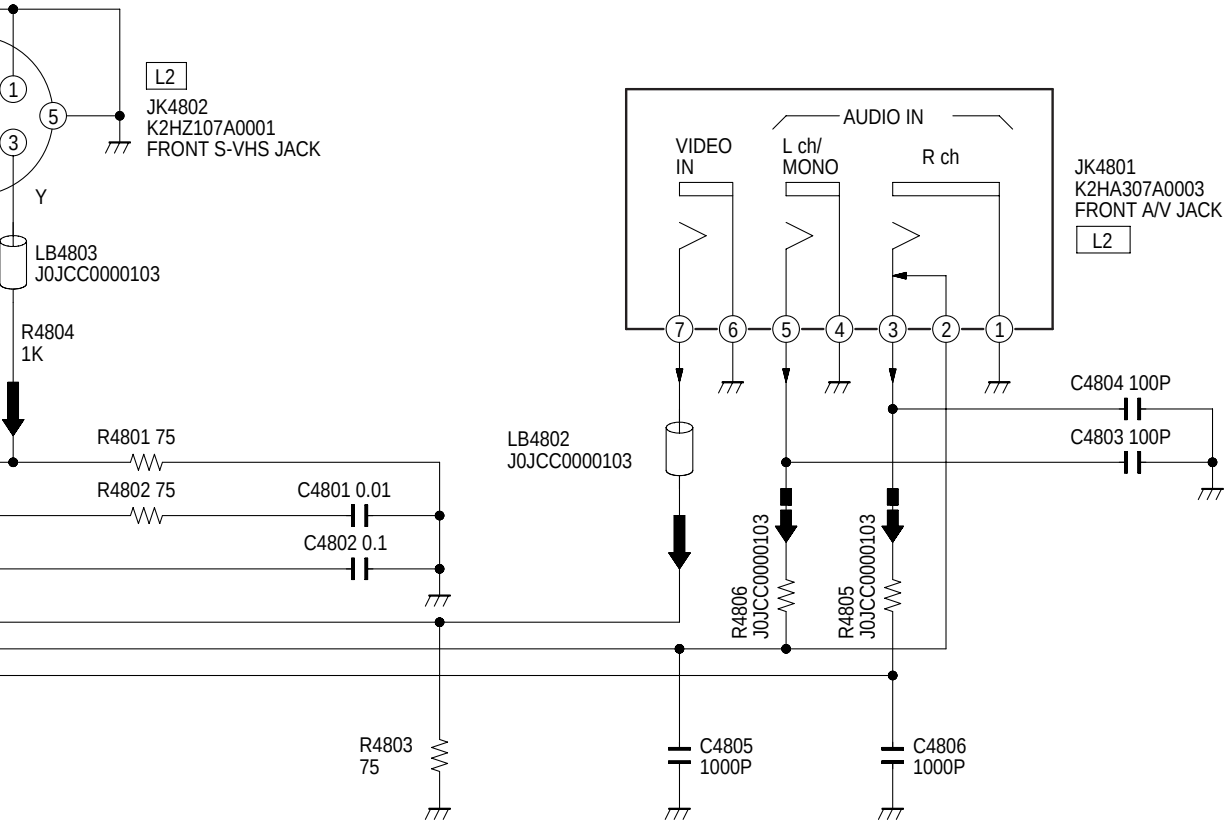
22.13. Front Jack Schematic Diagram



VIDEO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN REC MODE







.THE CORRECT PART NUMBER IS SHOWN
S DRAWING WAS PREPARED.

DMR-E75VP
Front Jack
Schematic Diagram

4	5	6

IC Pin Terminal Chart (TC 1 - TC 6)

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	IC3402 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
1	ARDQ0	334	MADQB0	2	DQ0
	ARDQ1	335	MADQB1	4	DQ1
	ARDQ2	336	MADQB2	5	DQ2
	ARDQ3	2	MADQB3	7	DQ3
	ARDQ4	4	MADQB4	8	DQ4
	ARDQ5	5	MADQB5	10	DQ5
	ARDQ6	7	MADQB6	11	DQ6
	ARDQ7	9	MADQB7	13	DQ7
	ARDQ8	16	MADQB8	42	DQ8
	ARDQ9	17	MADQB9	44	DQ9
	ARDQ10	19	MADQB10	45	DQ10
	ARDQ11	20	MADQB11	47	DQ11
	ARDQ12	22	MADQB12	48	DQ12
	ARDQ13	23	MADQB13	50	DQ13
	ARDQ14	25	MADQB14	51	DQ14
	ARDQ15	26	MADQB15	53	DQ15
	ARA0	28	MAB0	23	A0
	ARA1	29	MAB1	24	A1
	ARA2	31	MAB2	25	A2
	ARA3	32	MAB3	26	A3
	ARA4	34	MAB4	29	A4
	ARA5	35	MAB5	30	A5
	ARA6	37	MAB6	31	A6
	ARA7	38	MAB7	32	A7
	ARA8	41	MAB8	33	A8
	ARA9	42	MAB9	34	A9
	ARA10	44	MAB10	35	A10
	ARA11	45	MAB11	22	A11
	ARA12	47	MAB12	36	A12

TC	IC3404 / AV ENC&RTSC		SIGNAL NAME	IC3408 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
2	MDQ0	88	MDQA0	2	DQ0
	MDQ1	89	MDQA1	4	DQ1
	MDQ2	91	MDQA2	5	DQ2
	MDQ3	92	MDQA3	7	DQ3
	MDQ4	93	MDQA4	8	DQ4
	MDQ5	95	MDQA5	10	DQ5
	MDQ6	96	MDQA6	11	DQ6
	MDQ7	97	MDQA7	13	DQ7
	MDQ8	99	MDQA8	74	DQ8
	MDQ9	100	MDQA9	76	DQ9
	MDQ10	101	MDQA10	77	DQ10
	MDQ11	103	MDQA11	79	DQ11
	MDQ12	104	MDQA12	80	DQ12
	MDQ13	105	MDQA13	82	DQ13
	MDQ14	108	MDQA14	83	DQ14
	MDQ15	109	MDQA15	85	DQ15
	MDQ16	115	MDQA16	31	DQ16
	MDQ17	116	MDQA17	33	DQ17
	MDQ18	118	MDQA18	34	DQ18
	MDQ19	119	MDQA19	36	DQ19
	MDQ20	120	MDQA20	37	DQ20
	MDQ21	122	MDQA21	39	DQ21
	MDQ22	123	MDQA22	40	DQ22
	MDQ23	124	MDQA23	42	DQ23
	MDQ24	127	MDQA24	45	DQ24
	MDQ25	128	MDQA25	47	DQ25
	MDQ26	129	MDQA26	48	DQ26
	MDQ27	131	MDQA27	50	DQ27
	MDQ28	132	MDQA28	51	DQ28
	MDQ29	133	MDQA29	53	DQ29
	MDQ30	135	MDQA30	54	DQ30
	MDQ31	136	MDQA31	56	DQ31
	MA0	147	MAA0	25	A0
	MA1	148	MAA1	26	A1
	MA2	149	MAA2	27	A2
	MA3	152	MAA3	60	A3
	MA4	153	MAA4	61	A4
	MA5	154	MAA5	62	A5
	MA6	156	MAA6	63	A6
	MA7	157	MAA7	64	A7
	MA8	158	MAA8	65	A8
	MA9	160	MAA9	66	A9
	MA10	161	MAA10	24	A10

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	FP3401 (DVD RAM)	
	Port Name	Pin No		Pin No	Port Name
3	S1DB0	258	RAMD0	24	DD0
	S1DB1	259	RAMD1	26	DD1
	S1DB2	260	RAMD2	28	DD2
	S1DB3	261	RAMD3	30	DD3
	S1DB4	263	RAMD4	32	DD4
	S1DB5	264	RAMD5	34	DD5
	S1DB6	265	RAMD6	36	DD6
	S1DB7	266	RAMD7	38	DD7
	S1DB8	268	RAMD8	37	DD8
	S1DB9	269	RAMD9	35	DD9
	S1DB10	271	RAMD10	33	DD10
	S1DB11	272	RAMD11	31	DD11
	S1DB12	274	RAMD12	29	DD12
	S1DB13	275	RAMD13	27	DD13
	S1DB14	276	RAMD14	25	DD14
	S1DB15	277	RAMD15	23	DD15

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	IC6001 / AV DEC&MAIN CPU	
	Port Name	Pin No		Pin No	Port Name
4	R656OUT0	296	R656ENC0	278	VDIN0
	R656OUT1	297	R656ENC1	277	VDIN1
	R656OUT2	298	R656ENC2	272	VDIN2
	R656OUT3	299	R656ENC3	271	VDIN3
	R656OUT4	301	R656ENC4	270	VDIN4
	R656OUT5	302	R656ENC5	269	VDIN5
	R656OUT6	303	R656ENC6	268	VDIN6
	R656OUT7	304	R656ENC7	266	VDIN7

TC	IC6001/AV DEC&MAIN CPU		SIGNAL NAME	IC3404 / AVENC&RTSC	
	Port Name	Pin No		Pin No	Port Name
5	VDOUT0	289	R656DEC0	283	R656IN0
	VDOUT1	288	R656DEC1	284	R656IN1
	VDOUT2	286	R656DEC2	285	R656IN2
	VDOUT3	285	R656DEC3	286	R656IN3
	VDOUT4	284	R656DEC4	288	R656IN4
	VDOUT5	283	R656DEC5	289	R656IN5
	VDOUT6	282	R656DEC6	290	R656IN6
	VDOUT7	281	R656DEC7	291	R656IN7

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	IC6001/AV DEC&MAIN CPU	
	Port Name	Pin No		Pin No	Port Name
6	STD0	229	STD0	251	STD0
	STD1	230	STD1	250	STD1
	STD2	231	STD2	249	STD2
	STD3	233	STD3	248	STD3
	STD4	234	STD4	247	STD4
	STD5	235	STD5	245	STD5
	STD6	238	STD6	244	STD6
	STD7	239	STD7	243	STD7

IC Pin Terminal Chart (TC7 - TC10)

TC	IC6001 / AV DEC&MAIN CPU		SIGNAL NAME	IC50001 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
7	MDQM0	343	DQ0	2	DQ0
	MDQM1	346	DQ1	4	DQ1
	MDQM2	348	DQ2	5	DQ2
	MDQM3	350	DQ3	7	DQ3
	MDQM4	353	DQ4	8	DQ4
	MDQM5	355	DQ5	10	DQ5
	MDQM6	358	DQ6	11	DQ6
	MDQM7	360	DQ7	13	DQ7
	MDQM8	359	DQ8	42	DQ8
	MDQM9	356	DQ9	44	DQ9
	MDQM10	354	DQ10	45	DQ10
	MDQM11	352	DQ11	47	DQ11
	MDQM12	349	DQ12	48	DQ12
	MDQM13	347	DQ13	50	DQ13
	MDQM14	344	DQ14	51	DQ14
	MDQM15	342	DQ15	53	DQ15
	MAM0	317	A0	23	A0
	MAM1	320	A1	24	A1
	MAM2	322	A2	25	A2
	MAM3	328	A3	26	A3
	MAM4	330	A4	29	A4
	MAM5	332	A5	30	A5
	MAM6	331	A6	31	A6
	MAM7	329	A7	32	A7
	MAM8	323	A8	33	A8
	MAM9	321	A9	34	A9
	MAM10	318	A10	22	A10
	MAM11	316	A11	35	A11

TC	IC6001 / AV DEC&MAIN CPU		SIGNAL NAME	IC50002 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQM16	292	DQ16	2	DQ0
	MDQM17	295	DQ17	4	DQ1
	MDQM18	297	DQ18	5	DQ2
	MDQM19	299	DQ19	7	DQ3
	MDQM20	302	DQ20	8	DQ4
	MDQM21	304	DQ21	10	DQ5
	MDQM22	308	DQ22	11	DQ6
	MDQM23	310	DQ23	13	DQ7
	MDQM24	309	DQ24	42	DQ8
	MDQM25	305	DQ25	44	DQ9
	MDQM26	303	DQ26	45	DQ10
	MDQM27	301	DQ27	47	DQ11
	MDQM28	298	DQ28	48	DQ12
	MDQM29	296	DQ29	50	DQ13
	MDQM30	293	DQ30	51	DQ14
	MDQM31	291	DQ31	53	DQ15
	MAM0	317	A0	23	A0
	MAM1	320	A1	24	A1
	MAM2	322	A2	25	A2
	MAM3	328	A3	26	A3
	MAM4	330	A4	29	A4
	MAM5	332	A5	30	A5
	MAM6	331	A6	31	A6
	MAM7	329	A7	32	A7
	MAM8	323	A8	33	A8
	MAM9	321	A9	34	A9
	MAM10	318	A10	22	A10
	MAM11	316	A11	35	A11

TC	IC6001 / AV DEC&MAIN CPU		SIGNAL NAME	IC6005 / W-MEMORY	
	Port Name	Pin No		Pin No	Port Name
9	MD0	118	MD0	2	DQ0
	MD1	121	MD1	4	DQ1
	MD2	123	MD2	5	DQ2
	MD3	125	MD3	7	DQ3
	MD4	128	MD4	8	DQ4
	MD5	130	MD5	10	DQ5
	MD6	133	MD6	11	DQ6
	MD7	135	MD7	13	DQ7
	MD8	134	MD8	42	DQ8
	MD9	131	MD9	44	DQ9
	MD10	129	MD10	45	DQ10
	MD11	127	MD11	47	DQ11
	MD12	124	MD12	48	DQ12
	MD13	122	MD13	50	DQ13
	MD14	119	MD14	51	DQ14
	MD15	117	MD15	53	DQ15
	MA0	160	MA0	23	A0
	MA1	163	MA1	24	A1
	MA2	165	MA2	25	A2
	MA3	167	MA3	26	A3
	MA4	166	MA4	29	A4
	MA5	164	MA5	30	A5
	MA6	161	MA6	31	A6
	MA7	159	MA7	32	A7
	MA8	156	MA8	33	A8
	MA9	153	MA9	34	A9
	MA10	157	MA10	22	A10
	MA11	151	MA11	35	A11
	MA12	147	MA12	36	NC
	MA13	154	MA13	21	A12
	MA14	152	MA14	20	A13

TC	IC6701 / GLUE		SIGNAL NAME	IC6702 / DATA STRAGE	
	Port Name	Pin No		Pin No	Port Name
10	ECCD0	109	DE0	18	D0
	ECCD1	110	DE1	19	D1
	ECCD2	111	DE2	20	D2
	ECCD3	112	DE3	21	D3
	ECCD4	113	DE4	24	D4
	ECCD5	114	DE5	25	D5
	ECCD6	115	DE6	26	D6
	ECCD7	116	DE7	27	D7

SA0 - SA25 ADDRESS BUS LINE (TC12, TC14-1, TC15-1, TC17, TC18-1)

TC	12		14-1		15-1		17		18-1	
SIGNAL NAME	**IC3404 / AVENC&RTSC**		**IC6701 / GLUE**		**IC6001 / AVDEC&MAIN CPU**		**IC6004 / BUFFER**		**IC6003 / LOADER**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	-	-	-	-	28	SA0	-	-	-	-
SA1	-	-	-	-	27	SA1	2	1A1	25	A0
SA2	-	-	-	-	26	SA2	4	1A2	24	A1
SA3	-	-	-	-	25	SA3	6	1A3	23	A2
SA4	-	-	-	-	24	SA4	8	1A4	22	A3
SA5	186	HA4	6	ADRL5	22	SA5	-	-	21	A4
SA6	187	HA5	5	ADRL6	20	SA6	-	-	20	A5
SA7	188	HA6	4	ADRL7	19	SA7	-	-	19	A6
SA8	189	HA7	-	-	18	SA8	-	-	18	A7
SA9	191	HA8	-	-	17	SA9	-	-	8	A8
SA10	192	HA9	-	-	16	SA10	-	-	7	A9
SA11	194	HA10	-	-	15	SA11	-	-	6	A10
SA12	195	HA11	-	-	14	SA12	-	-	5	A11
SA13	-	-	-	-	12	SA13	-	-	4	A12
SA14	-	-	-	-	11	SA14	-	-	3	A13
SA15	-	-	-	-	10	SA15	-	-	2	A14
SA16	-	-	-	-	9	SA16	-	-	1	A15
SA17	-	-	-	-	8	SA17	-	-	48	A16
SA18	-	-	-	-	7	SA18	-	-	17	A17
SA19	-	-	-	-	6	SA19	-	-	16	A18
SA20	-	-	-	-	3	SA20	-	-	-	-
SA21	-	-	-	-	2	SA21	-	-	-	-
SA22	-	-	12	ADR22	1	SA22	-	-	-	-
SA23	-	-	13	ADRH0	363	SA23	-	-	-	-
SA24	-	-	14	ADRH1	362	SA24	-	-	-	-
SA25	-	-	15	ADRH2	361	SA25	-	-	-	-

SD16 - SD31 DATA BUS LINE (TC14-2, TC15-2, TC18-2)

TC	14-2		15-2		18-2	
SIGNAL NAME	**IC6701 / GLUE**		**IC6001 / AVDEC&MAIN CPU**		**IC6003 / LOADER**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD16	50	LDTI0	67	SD16	29	I/O0
SD17	49	LDTI1	66	SD17	31	I/O1
SD18	47	LDTI2	65	SD18	33	I/O2
SD19	45	LDTI3	64	SD19	35	I/O3
SD20	43	LDTI4	63	SD20	38	I/O4
SD21	42	LDTI5	62	SD21	40	I/O5
SD22	40	LDTI6	61	SD22	42	I/O6
SD23	36	LDTI7	59	SD23	44	I/O7
SD24	35	LDTI8	58	SD24	30	I/O8
SD25	34	LDTI9	57	SD25	32	I/O9
SD26	33	LDTI10	56	SD26	34	I/O10
SD27	31	LDTI11	55	SD27	36	I/O11
SD28	29	LDTI12	54	SD28	39	I/O12
SD29	28	LDTI13	53	SD29	41	I/O13
SD30	27	LDTI14	51	SD30	43	I/O14
SD31	26	LDTI15	50	SD31	45	I/O15

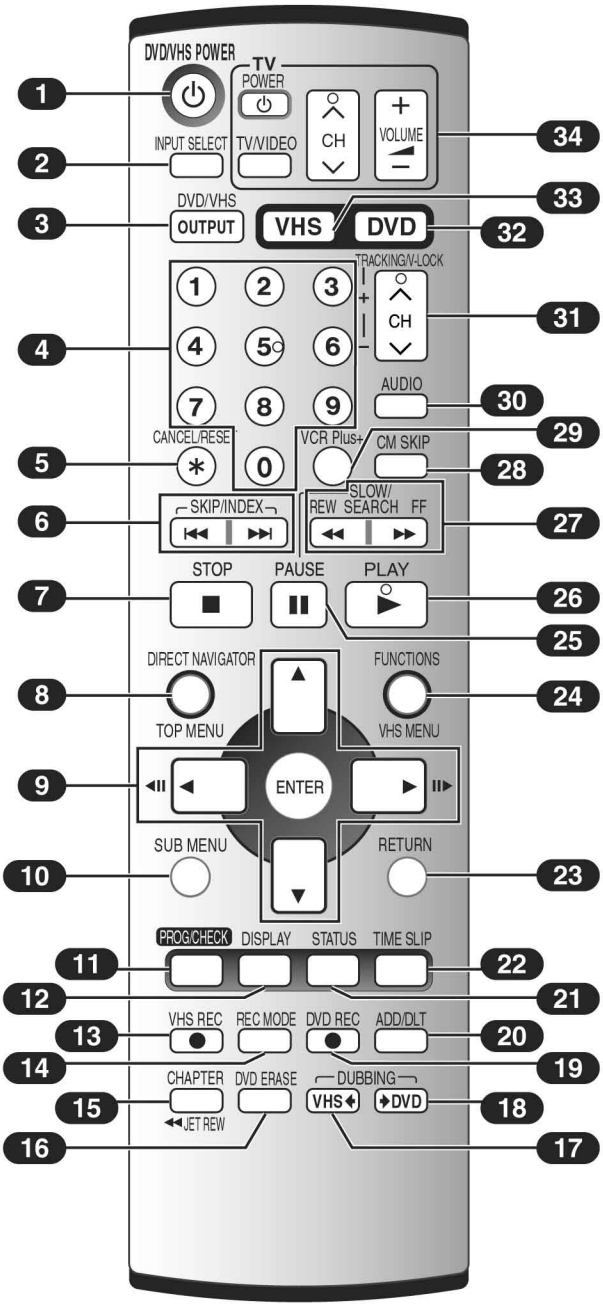
MSD16 - MSD31 DATA BUS LINE (TC11-1, TC13-1)

TC	11-1		13-1	
SIGNAL NAME	**IC3404 / AVENC&RTSC**		**IC6701 / GLUE**	
	Pin No	Port Name	Pin No	Port Name
MSD16	203	HD0	74	LDEV0
MSD17	204	HD1	73	LDEV1
MSD18	206	HD2	72	LDEV2
MSD19	207	HD3	71	LDEV3
MSD20	209	HD4	69	LDEV4
MSD21	210	HD5	68	LDEV5
MSD22	212	HD6	67	LDEV6
MSD23	213	HD7	64	LDEV7
MSD24	215	HD8	63	LDEV8
MSD25	216	HD9	61	LDEV9
MSD26	217	HD10	60	LDEV10
MSD27	218	HD11	59	LDEV11
MSD28	220	HD12	56	LDEV12
MSD29	221	HD13	54	LDEV13
MSD30	223	HD14	53	LDEV14
MSD31	224	HD15	52	LDEV15

MSA1 - MSA4 ADDRESS BUS LINE (TC11, TC13-2, TC16)

TC	11		13-2		16	
SIGNAL NAME	**IC3404/AVENC&RTSC**		**IC6701/GLUE**		**IC6004/BUFFER**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSA1	107	HA0	10	ADRL1	18	1Y1
MSA2	106	HA1	9	ADRL2	16	1Y2
MSA3	105	HA2	8	ADRL3	14	1Y3
MSA4	104	HA3	7	ADRL4	12	1Y4

■ Remote control



■[VHS] and [DVD] button

[DVD]

- Switch the remote control mode to DVD. Make sure you press before performing DVD operations. When in DVD mode, the [DVD] button lights each time you press one of the buttons on the remote control.

[VHS]

- Switch the remote control mode to VHS. Make sure you press before performing VHS operations. When in VHS mode, the [VHS] button lights each time you press one of the buttons on the remote control.

1 DVD/VHS POWER on/off button (⏻, DVD/VHS POWER)

2 Input select button (INPUT SELECT)
3 DVD/VHS output button (OUTPUT, DVD/VHS)
4 Numeric buttons (0–9)
5 Cancel/Reset and asterisk button (CANCEL/RESET, ∗)
6 Skip/Index buttons (⏮, ⏭, SKIP/INDEX)
7 Stop button (■, STOP)
8 Top menu and Direct Navigator button (TOP MENU, DIRECT NAVIGATOR)
9 Cursor buttons (▲, ▼, ◄, ►)/Frame buttons (◄II, II►)/ Enter button (ENTER)
10 Sub menu button (SUB MENU)
11 Manual programming and check button (PROG/CHECK)
12 Display button (DISPLAY)
13 VHS recording button (●, VHS REC)

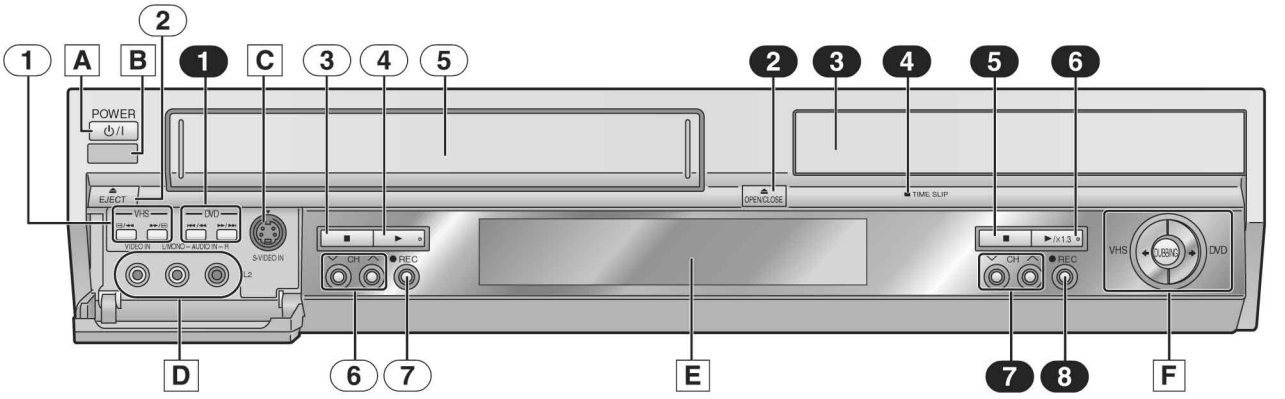
When you press this button in the DVD remote control mode, it is automatically switched to the VHS remote control mode.

14 Recording mode button (REC MODE)
15 Chapter button (CHAPTER)/ Jet rewind button (◄◄ JET REW)
16 DVD erase button (DVD ERASE)
17 VHS dubbing button (VHS ⏴, DUBBING)
18 DVD dubbing button (⏵ DVD, DUBBING)
19 DVD recording button (●, DVD REC)

When you press this button in the VHS remote control mode, it is automatically switched to the DVD remote control mode.

20 Add/Delete button (ADD/DLT)
21 Status display button (STATUS)
22 Time slip button (TIME SLIP)
23 Return button (RETURN)
24 Functions (FUNCTIONS)/ VHS menu (VHS MENU) button
25 Pause button (II, PAUSE)
26 Play button (►, PLAY)
27 Slow/Search, rewind, forward buttons (◄◄, ►►, SLOW/SEARCH, REW, FF)
28 CM skip button (CM SKIP)
29 VCR Plus+ button (VCR Plus+)
30 Audio button (AUDIO)
31 TRACKING/V-LOCK /Channel up/down buttons (CH, ∧, ∨)
32 DVD select button (DVD)
33 VHS select button (VHS)
34 TV operation buttons
POWER on/off button (POWER, ⏻)
TV/VIDEO input mode select button (TV/VIDEO)
Channel up/down buttons (CH, ∧, ∨)
Volume up/down buttons (VOLUME, +, −)

■ Main unit



Common to DVD/VHS

A **DVD/VHS POWER on/off button (⏻/I, POWER)**
- To switch the unit from on to standby mode or vice versa. In the standby mode, the unit is still consuming a small amount of power.

B **Remote control signal sensor**

C **S-Video input terminal (S-VIDEO IN)**

D **L2 input terminals (L2)**

E **Display**

F **One Touch Transfer (Dubbing) operation button**
- **From VHS to DVD**
- **From DVD to VHS**

VHS

(1) **VHS Search buttons (⏪/◀◀, ▶▶/⏩)**

(2) **Cassette eject button (⏏, EJECT)**

(3) **VHS Stop button (■)**

(4) **VHS Play button (▶)**

(5) **Cassette compartment**

(6) **VHS Channel up/down buttons (CH, ∧, ∨)**

(7) **VHS Recording button (●, REC)**

DVD

❶ **DVD Skip/Slow/Search buttons (⏮/◀◀, ▶▶/▶▶⏭)**

❷ **Disc tray open/close button (⏏, OPEN/CLOSE)**

❸ **Disc tray**

❹ **Time slip indicator (TIME SLIP)**
- While both recording and play are activated, this indicator lights up.

❺ **DVD Stop button (■)**

❻ **DVD Play/×1.3 button (▶/×1.3)**

❼ **DVD Channel up/down buttons (CH, ∧, ∨)**

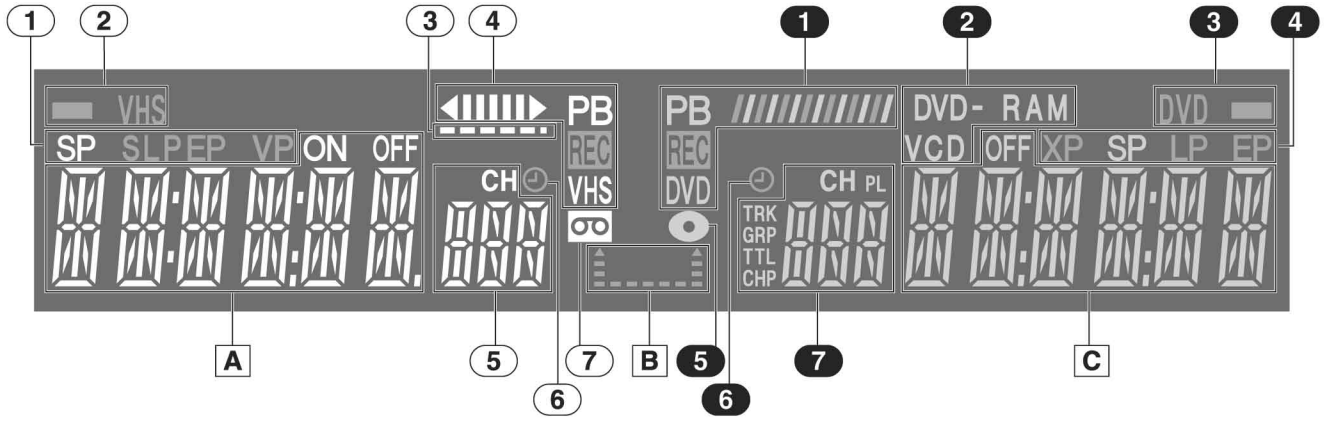
❽ **DVD Recording button (●, REC)**

■ Off Timer

The unit switches to standby when it is not being used about 6 hours.

You can turn this feature off or change the time to 2 hours.

■ The unit's display



Common to DVD/VHS

A Main display
- Current time
- VHS recording and play counter
- Timer recording start time
- Miscellaneous messages, etc.

B Transfer (Dubbing) direction indicator

C Main display
- Disc play counter
- Timer recording end time
- Miscellaneous messages, etc.

VHS

1 Tape speed indicator
- SP: When recording or playing in Normal mode.
- LP: When playing in Long play mode.
- EP: When recording or playing in Extra long play mode.
- VP: When recording or playing in five-time (Long play) mode.

2 VHS output indicator

3 Remaining tape time indicator

4 Tape operation status
- The operation status of this unit, such as playback, fast forward, etc.

5 Channel

6 Timer program display (⏲)

On:
When a timer program is registered and recordable tape is inserted.

Flashes:
When the unit cannot record the registered program (e.g. there is no tape, etc.) from 2 minutes before starting a timer program to the end of the timer program.

7 Tape indicator

DVD

1 Disc operation status

2 Disc type

3 DVD output indicator

4 Recording mode
- XP SP LP EP (all on): FR mode

5 Disc indicator

6 Timer program display (⏲)

On:
When a timer program is registered and recordable disc is inserted.

Flashes:
When the unit cannot record the registered program (e.g. there is no disc, etc.) from 2 minutes before starting a timer program to the end of the timer program.

7 Channel position indicator

TRK: track number
GRP: group number
TTL: title number
CHP: chapter number
CH: channel
PL: play list number

Note
- A half mirror is used for the unit's display so the display may occasionally be difficult to see depending on surrounding conditions.

S:Syscon/Servo/Timer Section(Page: C)
A:Hi-Fi Audio Section(Page: D)
V:Video Section(Page: E)

D

TU7401
ENG36716GF
U/V TUNER

TO PS43001
I/O P.C.B.
P4501

IC7401
C0CBCDD00006
(MAIN REG.+5V)

IC7301
AN5832SA-E1V
(DECODER)

IC7403
C0BBBB000006
(AFC A/D)

IC4301
C0JBAR000285
(VTR/DVD SELECTOR SW)

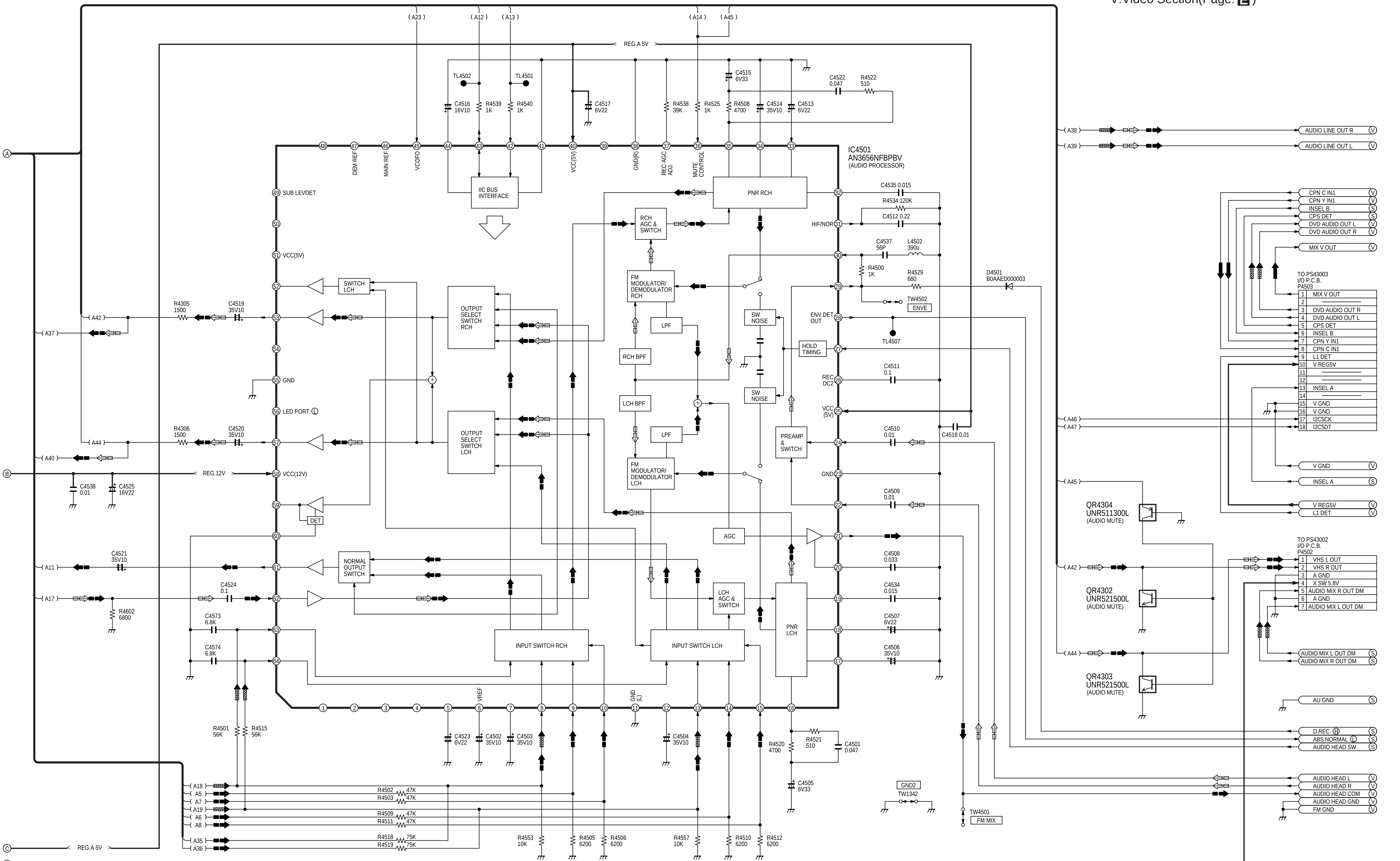
IC4302
C0ABBB000108
(AUDIO BUFFER)

DMR-E75VP Hi-Fi Audio Section (Main P.C.B.(2/3)) Schematic Diagram (A)

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
DVD VIDEO EE SIGNAL
DVD AUDIO EE SIGNAL

S:Syscon/Servo/Timer Section(Page: C)
A:Hi-Fi Audio Section(Page: D)
V:Video Section(Page: E)

D



IC4501
AN3656NFBPBV
(AUDIO PROCESSOR)
REG.A 5V
REG.12V
X SW5.8V
SUB LEVDET
VCC(5V)
GND
LED PORT
VCC(12V)
DEM REF
MAIN REF
VCOFO
GND(R)
REC AGC ADJ.
MUTE CONTROL
HIF/NOR
ENV.DET OUT
REC DC2
VCC (5V)
IIC BUS INTERFACE
PNR RCH
PNR LCH
RCH AGC & SWITCH
LCH AGC & SWITCH
FM MODULATOR/ DEMODULATOR RCH
FM MODULATOR/ DEMODULATOR LCH
RCH BPF
LCH BPF
LPF
SW NOISE
HOLD TIMING
PREAMP & SWITCH
AGC
SWITCH LCH
OUTPUT SELECT SWITCH RCH
OUTPUT SELECT SWITCH LCH
NORMAL OUTPUT SWITCH
INPUT SWITCH RCH
INPUT SWITCH LCH
DET
TL4501
TL4502
TL4507
TW4502
ENVE
TW4501
FM MIX
TW1342
GND2
D4501
B0AAED000003
QR4304
UNR511300L
(AUDIO MUTE)
QR4302
UNR521500L
(AUDIO MUTE)
QR4303
UNR521500L
(AUDIO MUTE)
TO PS43003
I/O P.C.B.
P4503
1 MIX V OUT
3 DVD AUDIO OUT R
4 DVD AUDIO OUT L
5 CPS DET
6 INSEL B
7 CPN Y IN1
8 CPN C IN1
9 L1 DET
10 V REG5V
13 INSEL A
15 V GND
16 V GND
17 I2C5CK
18 I2C5DT
TO PS43002
I/O P.C.B.
P4502
1 VHS L OUT
2 VHS R OUT
3 A GND
4 X SW 5.8V
5 AUDIO MIX R OUT DM
6 A GND
7 AUDIO MIX L OUT DM
AUDIO LINE OUT R
AUDIO LINE OUT L
CPN C IN1
CPN Y IN1
INSEL B
CPS DET
DVD AUDIO OUT L
DVD AUDIO OUT R
MIX V OUT
V GND
INSEL A
V REG5V
L1 DET
AUDIO MIX L OUT DM
AUDIO MIX R OUT DM
AU GND
D REC
ABS NORMAL
AUDIO HEAD SW
AUDIO HEAD L
AUDIO HEAD R
AUDIO HEAD COM
AUDIO HEAD GND
FM GND

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E75VP Hi-Fi Audio Section (Main P.C.B.(2/3)) Schematic Diagram (A)

DMR-E75VP Hi-Fi Audio Section (Main P.C.B.(2/3)) Schematic Diagram (A)

12 13 14 15 16 17 18 19 20 21 22

443NT [L]	4.43 NTSC Ⓛ
A. COMP	AUDIO COMPONENT SIGNAL
A. COMPO	AUDIO COMPONENT SIGNAL
A. D.P [L]	AUDIO DUBBING PAUSE Ⓛ
A. D/L [L]	AUDIO DUBBING PAUSE Ⓛ
A. DEF [S]	AUDIO DEFEAT
A. DEF [S] [L]	AUDIO DEFEAT
A. DUB P [L]	AUDIO DUBBING PAUSE Ⓛ
A. DUB [H]	AUDIO DUBBING Ⓗ
A. ERASE	AUDIO ERASE
A. H. SW	AUDIO HEAD SWITCHING PULSE
A. HEAD [R]	AUDIO HEAD (REC)
A. HEAD [W]	AUDIO HEAD (PLAY)
A. IN [L]	AUDIO INPUT (L)
A. IN [R]	AUDIO INPUT (R)
A. MUT [H]	AUDIO MUTE Ⓗ
A. MUTE [H]	AUDIO MUTE Ⓗ
A. OUT [L]	AUDIO OUTPUT (L)
A. OUT [R]	AUDIO OUTPUT (R)
A. RF OUT	AUDIO RF SIGNAL OUTPUT
A/VS/S. DATA	AV SW/SERIAL DATA
AC ONLINE	AC ONLINE
AC. O/EE. H	AC ONLINE/EE Ⓗ
AFC S C	AFC S CURVE
AFC [S]	AFC S CURVE
AFC. DEF	AFC DEFEAT
ARFC OUT	AUDIO RF SIGNAL OUTPUT
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI
ART. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL Ⓗ/NORMAL
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE
AUDIO IN [L]	AUDIO INPUT (L)
AUDIO IN [R]	AUDIO INPUT (R)
AUDIO OUT [L]	AUDIO OUTPUT (L)
AUDIO OUT [R]	AUDIO OUTPUT (R)
AUDIO SELECT [H]	AUDIO SELECT Ⓗ
AUDIO. L	AUDIO (L)
AUDIO. R	AUDIO (R)
AV CNT	AV CONTROL
AV CTL	AV CONTROL
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK
AV. C.M.	AV CONTROL MODE
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)
AVSW/METER. L	AV SW/LEVEL METER (L)
B MODE. H	B MODE Ⓗ
B.G.P	BURST GATE PULSE
BACKUP 5V	BACK UP 5V
BAND. U.E.	BAND U
BANDVL. D	BAND VL
BI/MI [L]	BILINGUAL/MIX Ⓛ
BIL	BILINGUAL
BIL [L]	BILINGUAL Ⓛ
BIL. [H]	BILINGUAL Ⓗ
BIL/M1 [L]	BILINGUAL Ⓛ
BS CLOCK	BS CLOCK
BS DATA	BS DATA
BS LCH IN	BS L CHANNEL INPUT
BS MIX [H]	BS MIX Ⓗ
BS MON [H]	BS MONITOR Ⓗ
BS MONI [H]	BS MONITOR Ⓗ
BS RCH IN	BS R CHANNEL INPUT
BS VIDEO	BS VIDEO SIGNAL
BS VIDEO/BS1	BS VIDEO SIGNAL
BS [H]	BS Ⓗ
BS. LEVEL	BS LEVEL
BS. M [H]	BS MONITOR Ⓗ
BS/VTR [H]	BS/VTR Ⓗ
BUS CLK	BUS CLOCK
BUS LSN	BUS LISTEN
BUS TLK	BUS TALK
BUZZER	BUZZER
CAP EC	CAPSTAN TORQUE CONTROL
CAP M GND	CAPSTAN MOTOR GND
CAP. ET	CAPSTAN TORQUE CONTROL
CAP. FG1	CAPSTAN FG1 PULSE
CAP. FG2	CAPSTAN FG2 PULSE
CAS. SW	CASSETTE SW
CCN	PLAYBACK CONTROL SIGNAL (–)
CCP	PLAYBACK CONTROL SIGNAL (+)
CHM	CONTROL SIGNAL (+)
CHP	CONTROL SIGNAL (–)
CINEM [L]	CINEMA Ⓛ
CINEMA [L]	CINEMA Ⓛ
CINEMA/MIX	CINEMA/MIX
CKL	RATCH LOCK
CKS	SHIFT LOCK
CL	CLOCK
CLK	CLOCK
CLK (C.G)	CLOCK
CLOCK. IN	CLOCK INPUT
CLP	CLAMP
COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
COLOR [H]	COLOUR Ⓗ
CONV	CONVERTOR
CS	CHIP SELECT
CTL GND	CONTROL GND
CTL HEAD [+]	CONTROL HEAD (+)
CTL HEAD [–]	CONTROL HEAD (–)
CTL [+]	CONTROL HEAD (+)
CTL [–]	CONTROL HEAD (–)
CUE BIAS	CUE BIAS
CURRENT LIM	CURRENT LIMMITER
CYL ET	CYLINDER TORQUE CONTROL

CYL GND	CYLINDER GND
D.F.M. REC [H]	DELAIED FM RECORDING Ⓗ
D. FM REC [L]	DELAIED FM RECORDING Ⓛ
D. GND	DIGITAL GND
D. REC [H]	DELAYED RECORDING Ⓗ
D4/S. LED	D4/STILL LED
D4/STILLED	D4/STILL LED
DAC [CLK]	TUNER DAC (CLOCK)
DAC/FSCS	TUNER DAC/FS CHIP SELECT
DAREC [H]	DELAYED AUDIO RECORDING Ⓗ
DATA	DATA
DECODER [L]	DECODER (L)
DECODER [R]	DECODER (R)
DEW	DEW
DEW SNS	DEW SENSOR
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓗ
E. REC 5V	EXCEPT RECORDING 5V
EC	ERROR TORQUE CONTROL
ECR	ERROR TORQUE CONTROL REFERENCE VOLTAGE
EDT TRIG [L]	EDIT TRIGGER Ⓛ
EDIT [H]	EDIT Ⓗ
EE [H]	EE Ⓗ
EE [H]/INS [M]	EE Ⓗ/INSERT Ⓜ
EE. VV. TR	EE/VV/TRICK PLAY
EJECT. PO	EJECT POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK
ENV. SEL	ENVELOPE SELECT
ENVE. OUT	ENVELOPE OUTPUT
ENVE. SEL	ENVELOPE SELECT
ENV SELECT	ENVELOPE SELECT
EP [H]	LP Ⓗ
EP/LP [H]	LP Ⓗ
EP/LP/SP	LP/SP
EP/SS [H]	LP/SLOW/STILL/STOP Ⓗ
EPROMCS	EPROM CHIP SELECT
EX. REC 5V	EXCEPT RECORDING 5V
FF/REW [L]	FIRST FORWARD/REWIND Ⓛ
FG1 IN	FG1 PULSE INPUT
FG2 IN	FG2 PULSE INPUT
FILTER ADJUSTMENT	FILTER ADJUSTMENT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓗ
FLY ON [H]	FLYING ERASE HEAD ON Ⓗ
FLY. E [H]	FLYING ERASE HEAD ON Ⓗ
FM MUT [H]	FM AUDIO MUTE Ⓗ
FM MUTE [H]	FM AUDIO MUTE Ⓗ
FM OUT [L]	FM OUTPUT (L)
FM OUT [R]	FM OUTPUT (R)
FM PACK OUT [L]	FM PACK OUTPUT (L)
FM PACK OUT [R]	FM PACK OUTPUT (R)
FM/BS SEL [L]	FM/BS SELECT (L)
FM/BS SEL [R]	FM/BS SELECT (R)
FS. CLK	FS CLOCK
FUL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E [H]	FULL ERASE HEAD ON Ⓗ

FULL. E. 12V	FULL ERASE 12V
GND [A]	GND (ANALOG)
GND [TU]	GND (TUNER)
GND/N. SW. 12V	GND/NON SW 12V
H. SYNC	HORIZONTAL SYNC
H. AMP. SW	HEAD AMP SW PULSE
H. P <R>	HEAD PHONE (R)
H. P <L>	HEAD PHONE (L)
H. P GND	HEAD PHONE GND
H. P OUT [L]	HEAD PHONE OUTPUT (L)
H. P OUT [R]	HEAD PHONE OUTPUT (R)
H. SW	HEAD SW PULSE
HEAD PHONE [L]	HEAD PHONE (L)
HEAD PHONE [R]	HEAD PHONE (R)
HEAD SW	HEAD SW
HEATER [+]	HEATER (+)
HEATER [–]	HEATER (–)
HSS	HORIZONTAL SYNC SIGNAL
HTR [+]	HEATER (+)
HTR [–]	HEATER (–)
I RFE	REFERENCE CURRENT
ICL	CONTROL AGC CIRCUIT
IF	INTERMEDIATE FREQUENCY
IN SELA1	INPUT SELECT A1 POSITION
IN SELA2	INPUT SELECT A2 POSITION
IN SELA3	INPUT SELECT A3 POSITION
INS L/R [L]	INSERT Lch/Rch Ⓛ
INS. [H]	INSERT Ⓗ
INSEL A1	INPUT SELECT A1 POSITION
INSEL A2	INPUT SELECT A2 POSITION
INSERT	INSERT
INSERT [H]	INSERT Ⓗ
IO CS	INPUT/OUTPUT CHIP SELECT
JOG1	JOG1
JOG S3 LED/FOWRD	JOG LED/FORWARD LED
JOG/F. LED	JOG LED/FORWARD LED
JSB [H]	JSB Ⓗ
JST. CLCK	JUST CLOCK
JST. CLK	JUST CLOCK
JST. CLOCK	JUST CLOCK
L. OUT	Lch OUTPUT
L. CH [H]	Lch Ⓗ
L. CH [L]	Lch Ⓛ
LED (MAIN)	LED (MAIN)
LED (STEREO)	LED (STEREO)
LED (SUB)	LED (SUB)
LED CKL	LED SERIAL CLOCK
LED CKS	LED SERIAL CLOCK
LED DATA	LED SERIAL DATA
LINE IN 1 [L]	LINE INPUT 1 (L)
LINE IN 1 [R]	LINE INPUT 1 (R)
LINE IN 2 [L]	LINE INPUT 2 (L)
LINE IN 2 [R]	LINE INPUT 2 (R)
LINE IN V	LINE INPUT VIDEO
LINE IN [L]	LINE INPUT (L)

LINE IN [R]	LINE INPUT (R)
LINE OUT [L]	LINE OUTPUT (L)
LINE OUT [R]	LINE OUTPUT (R)
LP [H]	LP Ⓗ
LPTRI [L]	LP TRICK PLAY Ⓛ
Lch/A. DUB	Lch/AUDIO DUBBING
M GND	MOTOR GND
M REG	MOTOR REGULATOR
MAIN OUT	MAIN OUTPUT
MAIN [L]	MAIN Ⓛ
MAIN/MONO	MAIN/MONAURAL
MAX IN	MAXIMAM INPUT
MES [H]	MESECAM Ⓗ
MESE [H]	MESECAM Ⓗ
MESE [L]	MESECAM Ⓛ
METER 5V	LEVEL METER 5V
METER [L]	LEVEL METER (L)
METER [R]	LEVEL METER (R)
METER. L/AVS	LEVEL METER (L)
METER. R/AVC	LEVEL METER (R)
MI/BI [L]	MIX Ⓗ/BILIGUAL
MIC GND	MIC GND
MIC IN	MIC INPUT
MIC IN [L]	MIC INPUT (L)
MIC IN [R]	MIC INPUT (R)
MIC [H]	MIC Ⓗ
MIX [H]	MIX Ⓗ
MIX [H]/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINE	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MN. H/M. L	MONAURAL Ⓗ/MAIN Ⓛ
MN. H/MAI. L	MONAURAL Ⓗ/MAIN Ⓛ
MN2/MES. L	MONAURAL 2/MESECAM Ⓛ
MODE SEL	AUDIO MODE SELECT
MODE SW	AUDIO MODE SW
MODE. S. IN	AUDIO MODE SELECT INPUT
MODE. S. OUT	AUDIO MODE SELECT OUTPUT
MONO [H]	MONAURAL Ⓗ
MONO [H]/MAIN [L]	MONAURAL Ⓗ/MAIN Ⓛ
MONO2 [L]	MONAURAL 2
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM Ⓛ)
MOTOR GND	MOTOR GND
MUTE	MUTE
N. A. REC [L]	NORMAL AUDIO RECORDING
N. SW 12V	NON SW 12V
N. SW. 5. DET	NON SW 5V DETECT
NICAM	NICAM
NICAM [L]	NICAM Ⓛ
NOL [H]	PAL Ⓗ/4.43 NTSC Ⓜ/3.58 NTSC Ⓛ
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY Ⓗ
NORMAL [H]	NORMAL Ⓗ
NR BIAS	NR BIAS
NTSC [L]	NTSC Ⓛ
OCH	CONTROL AGC CIRCUIT
OUT	OUTPUT

P-OFF [H]	POWER OFF Ⓗ
P-OFF [L]	POWER OFF Ⓛ
P. FAIL	POWER FAILURE DETECT
P. OFF [H]	POWER OFF Ⓗ
P. OFF [L]	POWER OFF Ⓛ
PAL [H]	PAL Ⓗ
PAL [L]/NTSC [H]	PAL Ⓛ/NTSC Ⓗ
PB ADJ OUT	PLAYBACK ADJUST OUTPUT
PB OUT	PLAYBACK OUTPUT
PB. H	PLAYBACK Ⓗ
PFG	PG/FG
PHOTSN +B	PHOTO SENSOR +B
PICT. CNT	PICTURE CONTROL
PLAY LED/RVS LED	PLAY LED/REVERSE LED
PLAY. PO	PLAY POSITION
PLAY/R. LED	PLAY LED/REVERSE LED
PLY/DEW	PLAY/DEW Ⓗ
POWER OFF [L]	POWER OFF Ⓛ
PREROLL [H]	PREROLL Ⓗ
PWRFAIL	POWER FAILURE DETECT
R. CH [H]	Rch Ⓗ
R. CH [L]	Rch Ⓛ
R. ST	RESET
R/S/F	REVERSE Ⓗ/STOP Ⓜ/FORWARD Ⓛ
RCH [H]	Rch Ⓗ
REC 12V	RECORDING 12V
REC CHROMA	RECORDING CHROMINANCE SIGNAL
REC H	RECORDING Ⓗ
REC IN	RECORDING INPUT
REC OUT [L]	RECORDING OUTPUT Ⓛ
REC START	RECORDING START
REC VR [C]	RECORDING VOLUME (COMMON)
REC VR [L]	RECORDING VOLUME (L)
REC VR [R]	RECORDING VOLUME (R)
REC Y	RECORDING LUMINANCE SIGNAL
REC [H]	RECORDING Ⓗ
REC. C	RECORDING CHROMINANCE SIGNAL
REC. Y	RECORDING LUMINANCE SIGNAL
REC/EE CTL	RECORDING/EE CONTROL
REEL-T	REEL PULSE (TAKE-UP)
REEL-S	REEL PULSE (SUPPLY)
REGULATOR FILTER	REGULATOR FILTER
RESET	RESET
REV M F/R	REVIEW MOTOR FORWARD/REVERSE
REV M V1	REVIEW MOTOR V1
REV M V2	REVIEW MOTOR V2
REV MOTOR F/R	REVIEW MOTOR FORWARD/REVERSE
REV MOTOR V1	REVIEW MOTOR V1
REV MOTOR V2	REVIEW MOTOR V2
REV MOTOR [+]	REVIEW MOTOR (+)
REV MOTOR [–]	REVIEW MOTOR (+)
REV. M. GND	REVIEW MOTOR GND
RF. CHROMA	RF CHROMINANCE SIGNAL

RF OUT	RF OUTPUT
RF Y	RF LUMINANCE SIGNAL
RF. Y. IN	RF LUMINANCE SIGNAL INPUT
RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT
ROTAR. SW	ROTARY SW
ROTARY	ROTARY SW
RST	RESET
RST [L]	RESET Ⓛ
Rch/INST	Rch/INSERT
S IN	SERIAL DATA INPUT
S OUT	SERIAL DATA OUTPUT
S-PHOTO	SUPPLY PHOTO TRANSISTOR
S-RL. PLS	SUPPLY REEL PULSE
S. CLK	SERIAL CLOCK
S. CLK/AV	SERIAL CLOCK/AV
S. DATA	SERIAL DATA
S. DATA/A	SERIAL DATA
S. PHOTO	SUPPLY PHOTO TRANSISTOR
S. TAB [L]	SAFETY TAB SW ON Ⓛ
S/P/N	SECAM/PAL/NTSC
SC IN	SERIAL CLOCK INPUT
SC OUT	SERIAL CLOCK OUTPUT
SCK SELECT	SERIAL CLOCK SELECT
SEL OUT [L]	SELECT OUTPUT (L)
SEL OUT [R]	SELECT OUTPUT (R)
SHUTTLE 1	SHUTTLE 1
SIF	SOUND INTERMEDIATE FREQUENCY
SLMUT [H]	INPUT SELECT MUTE Ⓗ
SLNID [+]	SOLENOID (+)
SLNID [–]	SOLENOID (–)
SLW TR. MM	SLOW TRACKING MONO MULTI
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE
SNS. GND	SENSOR GND
SOFT [H]	SOFT TAPE PLAY Ⓗ
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ
SOLENOID ON [L]	SOLENOID ON Ⓛ
SP [H]	SP Ⓗ
SP/L/SLP	SP/LP
SSS [L]	SLOW/STILL/STOP
STEREO LED	STEREO LED
STEREO [H]	STEREO Ⓗ
STEREO [L]	STEREO Ⓛ
STOP. PO	STOP POSITION
STOP/5V	STOP POSITION/5V
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT
STOP1/PAL:ST	STOP1 POSITION/PAL
STOP2. PO	STOP 2 POSITION
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW
STREO [H]	STEREO Ⓗ
SUB BIAS	SUB BIAS
SUB. SW	SUB SW
SVHS CAS [L]	S-VHS CASSETTE Ⓛ
SW. 5. DET	SW 5V DETECT
SYNC [L]	SYNC Ⓛ
SYSCON 5V	SYSTEM CONTROL 5V
SYSTEM	SYSTEM SW
T-PHOTO	TAKE-UP PHOTO TRANSISTOR
T-RL. PLS	TAKE-UP REEL PULSE
T. BUSCLK	TIMER BUS CLOCK
T. BUSLSN	TIMER BUS LISTEN
T. BUSTLK	TIMER BUS TALK
T. END [L]	TAPE END Ⓛ
T. PHOTO	TAKE-UP PHOTO TRANSISTOR
TAPE END [L]	TAPE END Ⓛ
TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
TEST	TEST MODE
TPZ	TRAPEZOIDAL WAVE CIRCUIT
TRIC [L]	TRIC PLAY Ⓛ
TRICK [L]	TRIC PLAY Ⓛ
TRK. ENV	AUTO TRACKING ENVELOPE DETECT
TU. AUDIO	TUNER AUDIO
TU. GND	TUNER GND
TU. V. IN	TUNER VIDEO SIGNAL INPUT
TU. VIDEO	TUNER VIDEO
TUN NOR IN	TUNER NORMAL INPUT
TUN R	TUNER AUDIO (R)
TUN. AUDIO IN	TUNER AUDIO INPUT
TUNER 12V	TUNER 12V
TUNER L	TUNER AUDIO (L)
TUNER V IN	TUNER VIDEO SIGNAL INPUT
TUNER [L]	TUNER AUDIO (L)
TUNER [N]	TUNER AUDIO (NORMAL)
TUNER [R]	TUNER AUDIO (R)
TUNER. 12	TUNER 12V
TUOFF [H]	TUNER OFF Ⓗ
TV. AUDIO	TV AUDIO
TV/VTR	TV/VTR
TXTON [L]	TEXT ON Ⓛ
U. REG45V	UNREGULATOR 45V
UNREG	UNREGULATOR
UNREG19V	UNREGULATOR 19V
V. REF	REFERENCE VOLTAGE
V. EE [H]	VIDEO EE Ⓗ
V. EE [L]	VIDEO EE Ⓛ
VCO REF	REFERENCE OSCILLATER
VD. IN	VIDEO SIGNAL INPUT
VD. OUT	VIDEO SIGNAL OUTPUT
VIDEO EE [L]	VIDEO EE Ⓛ
VIDEO IN	VIDEO SIGNAL INPUT
VIDEO OUT	VIDEO SIGNAL OUTPUT
VM	MOTOR VOLTAGE
VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
VSS	VERTICAL SYNC SIGNAL
VTR [H]	VTR Ⓗ
VTR. 12V	VTR 12V
X IN	OSCILLATOR INPUT
X OUT	OSCILLATOR OUTPUT

LB4401
J0JGC0000020

GN D3.3V

EN 768FS1

R4403 0
R4402 0

R4426 0
R4427 0
R4428 0
R4425 5600

GN X1DA LP
MC DEC SCK
MC DEC SDTO
GN XDMUTE
MC XRESET

C4406 0.1

D4401
MA3Z142K0LG

IC4402
C0FBBK000035
(AUDIO 2CH D/A CONVERTER)

SCK MLC MDI NC ZEROA VCOM AGNDL
BCK DATA LRCK DGND VDD VCC VOUTL VOUTR

C4403 0.1
C4402 16V10

IC4403
C0JBAD000107
(XD MUTE OUT)

VCC OUTY INB INA GND

GN AMUTE
GN MIXROUT DM
GN MIXLOUT DM

MC 1DABCK
MC 1DADATA
MC 1DALRCK

R4406 0
R4405 0
R4404 0

FL4401
F1H0J4740004

C4407 16V10

LB4404
J0JGC0000020

FL4402
F1H0J4740004

C4408 0.1

IC4404
C0CBCBD00002
(REG.DAC+3.3V)

OUT GND NR
VIN GND ON

C4405 0.1
C4404 6V100

GN DGND

LB4402
J0JHC0000032

GN AU5V

C4409 0.1
C4410 6V330
C4411 0.1
C4412 6V100

LB4403
J0JGC0000020

C4418 0.1
C4417 10V10

GN AADC R

R4413 0

R4415 0

GN AUGND

GN AADC L

R4408 0

R4414 0

GN XADC PD

IC4406
C0FBAK000008
(AUDIO A/D CONVERTER)

MODE1 MODE0 FMT1 FMT0 TEST SCKI VDD DGND DOUT BCK
VINL VINR VREF1 VREF2 VCC AGND XPDWN BYPAS FSYNC LRCK

R4420 0
R4421 0
R4422 0

EN ENCMCK2
GN ADDATA
GN ADBCK

R4419 0

GN ADLRCK

C4426 0.1

C4416 0.1
C4415 6V47

R4418 220

C4421 1000P
C4423 1000P
C4424 1000P

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: C)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
Audio I/O Section
(Digital P.C.B.(4/4))
Schematic Diagram (AI)

DVD AUDIO SIGNAL
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

TU7401 U/V TUNER
SIF OUT 22
FL4562
IC7301 (AUDIO DECODER)
DEMODULATOR BLOCK
DECODER BLOCK
IIC BUS INTERFACE
TO/FROM DIGITAL P.C.B.
I2C5DT IC6701- 138
I2C5CK IC6701- 137
DECODER R
DECODER L

IC4501 (AUDIO PROCESSOR)
NORMAL SELECT SWITCH
INPUT SELECT SWITCH RCH
INPUT SELECT SWITCH LCH
OUTPUT SELECT SWITCH R CH
OUTPUT SELECT SWITCH L CH
AGC & SWITCH
PNR R CH
PNR L CH
SW NOISE
FM MODULATOR/ DEMODULATOR
LPF
BPF
AGC
HOLD TIMING
PREAMP & SWITCH
VCO FO
FM MIX TW4501
ENVE TW4502
MUTE CTL

IC3001 (AUDIO PROCESSOR)
VCA
fh TRAP
REC EQ.
PRE AMP
Q4001, Q4002 MUTE
QR4801 (L):ON
A+5V
P4002 4
P4002 3
A.HEAD(R)
A.HEAD(W)
TO/FROM A/C HEAD
IC6001- 20 D.REC H

IC4301 (VTR/DVD SELECTOR SW)
IC4302 (BUFFER)
LINE OUT R
LINE OUT L
JK3902 REAR OUTPUT JACK
VHS/DVD COMMON OUT
OUT (R)
OUT (L)
LINE
QR4302 RCH MUTE
QR4303 LCH MUTE
QR4304 MUTE DRIVE
QR3952 MUTE
QR3951 MUTE DRIVE
QR3953 MUTE
COM MUTE
COMMON MUTE H IC6001- 73

JK3901 (REAR JACK) L1
IN (R)
IN (L)
L1 IN R
L1 IN L
DVD R
DVD L

JK4801 (FRONT JACK) L2
IN (R)
IN L/ MONO
PP4801 5 PS33001 8
PP4801 7 PS33001 6
L2 IN R
L2 IN L

Q3001 FSC
FSC IC3001- 63
FROM VIDEO SECTION
QR4301 INV.
DVD OUT H IC6001- 1
FM MUTE H IC6001- 28
AUDIO HEAD SW H IC6001- 19
D.FM REC H IC6001- 20
FROM SYSTEM CONTROL SECTION
P3001 7
P3001 8
P3001 9
Hi-Fi AUDIO HEAD

TO/FROM SYSTEM CONTROL
IIC CLOCK IC6001- 71
IIC DATA IC6001- 72
IIC BUS INTERFACE

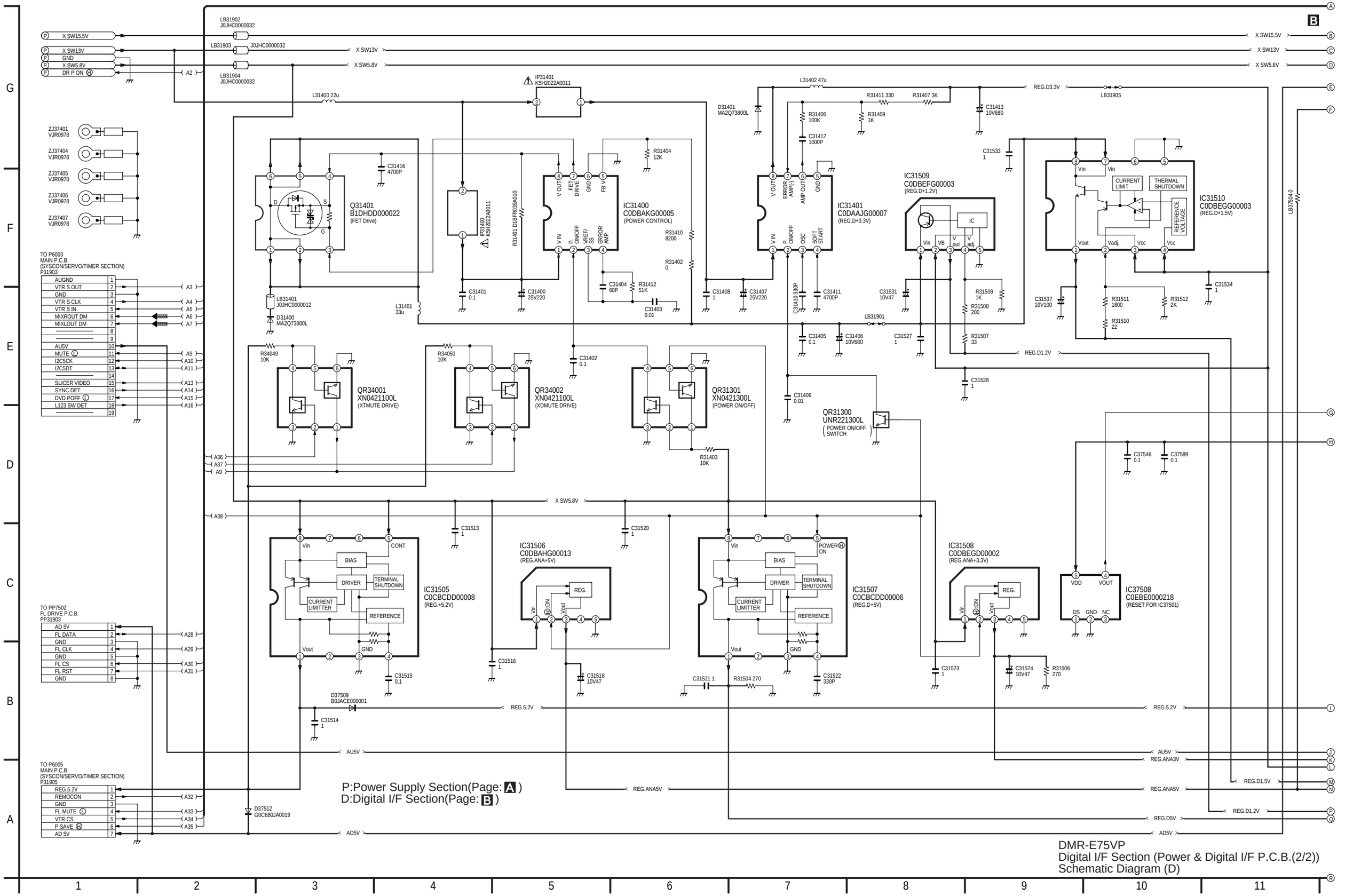
IC44001 (AUDIO BUFFER & SELECTOR SWITCH)
INPUT SELECTOR SWITCH
R CH
L CH
AGC
TUNER IN R
TUNER IN L
L1 IN R
L1 IN L
L2 IN R
L2 IN L
P4501 PS43001 14
P4501 PS43001 13
P4501 PS43001 5
P4501 PS43001 4
P4501 PS43001 10
P4501 PS43001 11
VHS R PS43002 P4502 2
VHS L PS43002 P4502 1
ADC R
ADC L
PS43001 P4501 P6002 P31902 P39702 P9001 16 18 48
PS43001 P4501 P6002 P31902 P39702 P9001 17 19 50
TO DIGITAL P.C.B.

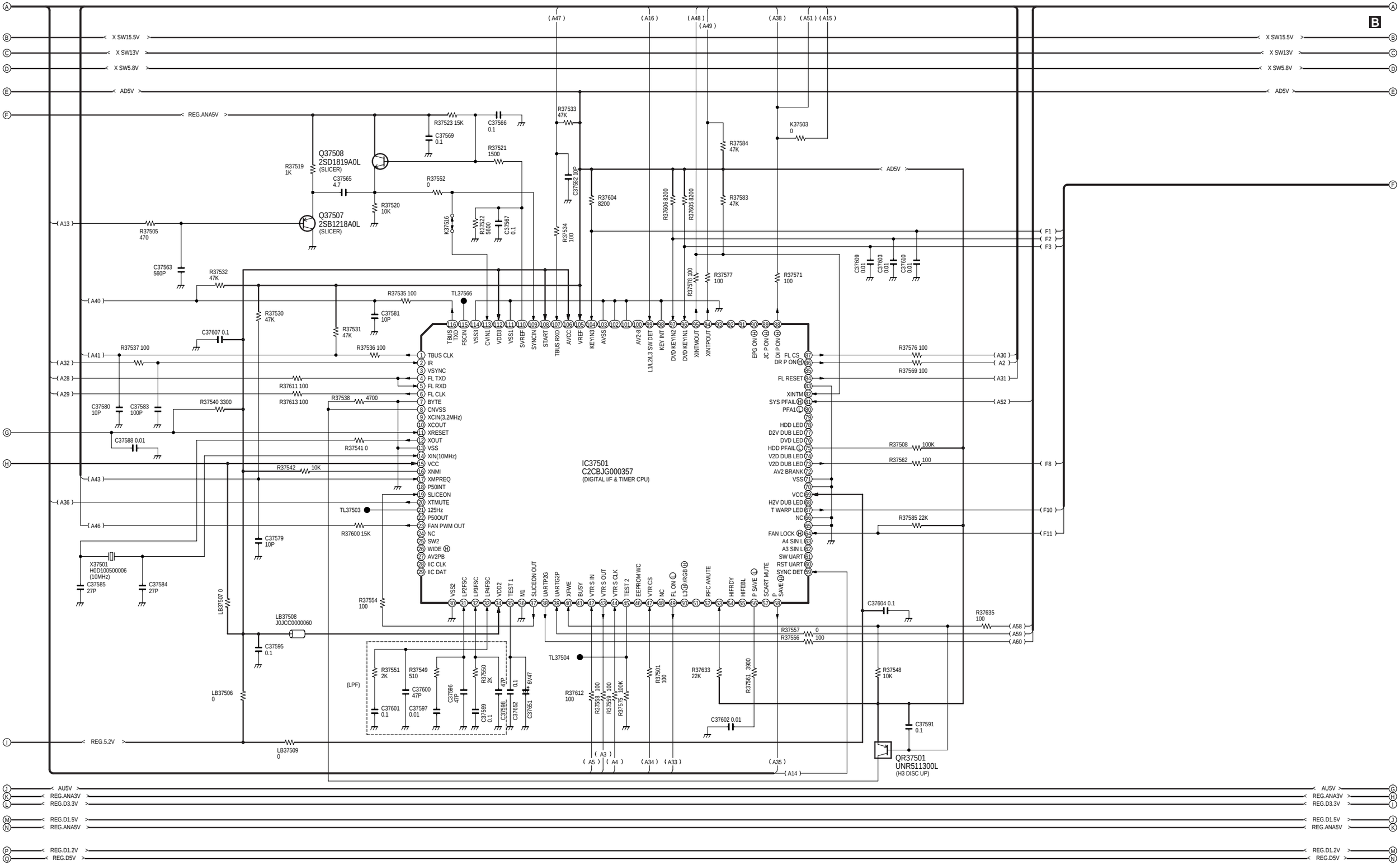
FROM POWER & DIGITAL I/F P.C.B.
XTMUTE IC37501- 20
QR34001 MUTE DRIVE
QR34002 MUTE DRIVE
OUT
MUTE
P31903 P6003 11
X SW5.8V
QR3701
D3701
Q3701 MUTE
Q3702 MUTE
FROM DIGITAL I/F P.C.B.
XDMUTE IC4403- 4
P9001 P39702 70
JK3902 REAR OUTPUT JACK
DVD
OUT (R)
OUT (L)

TO/FROM DIGITAL P.C.B.
I2C5CK IC6701- 137
I2C5DT IC6701- 138
IIC BUS INTERFACE

FROM DIGITAL P.C.B.
P9001 P39702 P31903 P6003 P4502 PS43002 58 6 5
P9001 P39702 P31903 P6003 P4502 PS43002 62 7 7
MIX R DM
MIX L DM
DVD R PS43003 P4503 3
DVD L PS43003 P4503 4

DMR-E75VP
Audio Block Diagram


LB31902 J0JHC0000032
LB31903 J0JHC0000032
LB31904 J0JHC0000032
P X SW15.5V
P X SW13V
P GND
P X SW5.8V
P DR P.ON H
A2
X SW15.5V
X SW13V
X SW5.8V
L31400 22u
IP31401 K5H2022A0011
L31402 47u
REG.D3.3V
LB31905
D31401 MA2Q73800L
R31411 330
R31407 3K
R31406 100K
R31409 1K
C31412 1000P
C31413 10V680
ZJ37401 VJR0978
ZJ37404 VJR0978
ZJ37405 VJR0978
ZJ37406 VJR0978
ZJ37407 VJR0978
Q31401 B1DHDD000022 (FET Drive)
C31416 4700P
R31404 12K
IC31400 C0DBAKG00005 (POWER CONTROL)
V OUT
FET DRIVE
GND
FB V
V IN
P. ON/OFF
VREF/ SS
ERROR AMP
R31410 8200
R31402 0
C31404 68P
R31412 51K
C31403 0.01
C31401 0.1
C31400 25V220
R31401 D1BFR039A010
IP31400 K5H2022A0011
L31401 33u
LB31401 J0JHC0000012
D31400 MA2Q73800L
IC31401 C0DAAJG00007 (REG.D+3.3V)
ERROR AMP(-)
AMP OUT
OSC
SOFT START
C31408 1
C31407 25V220
C31410 330P
C31411 4700P
IC31509 C0DBEFG00003 (REG.D+1.2V)
IC
Vin
VB
V out
V adj.
C31531 10V47
R31509 1K
R31508 200
R31507 33
C31527 1
C31533 1
IC31510 C0DBEGG00003 (REG.D+1.5V)
CURRENT LIMIT
THERMAL SHUTDOWN
REFERENCE VOLTAGE
Vout
Vadj.
Vcc
C31537 10V100
R31511 1800
R31512 2K
R31510 22
C31534 1
LB37504 0
LB31901
C31405 0.1
C31406 10V680
C31528 1
REG.D1.2V
TO P6003 MAIN P.C.B. (SYSCON/SERVO/TIMER SECTION) P31903
AUGND 1
VTR S OUT 2
GND 3
VTR S CLK 4
VTR S IN 5
MIXROUT DM 6
MIXLOUT DM 7
8
9
AU5V 10
MUTE L 11
I2C5CK 12
I2C5DT 13
14
SLICER VIDEO 15
SYNC DET 16
DVD POFF L 17
L123 SW DET 18
19
A3
A4
A5
A6
A7
A9
A10
A11
A13
A14
A15
A16
R34049 10K
R34050 10K
C31402 0.1
QR34001 XN0421100L (XTMUTE DRIVE)
QR34002 XN0421100L (XDMUTE DRIVE)
QR31301 XN0421300L (POWER ON/OFF)
R31403 10K
C31409 0.01
QR31300 UNR221300L (POWER ON/OFF SWITCH)
A36
A37
A9
C37546 0.1
C37589 0.1
X SW5.8V
A38
C31513 1
C31520 1
IC31505 C0CBCDD00008 (REG.+5.2V)
BIAS
DRIVER
TERMINAL SHUTDOWN
CURRENT LIMITTER
REFERENCE
CONT
Vout
GND
C31515 0.1
IC31506 C0DBAHG00013 (REG.ANA+5V)
REG.
ON
C31516 1
C31518 10V47
IC31507 C0CBCDD00006 (REG.D+5V)
POWER ON
C31521 1
R31504 270
C31522 330P
IC31508 C0DBEGD00002 (REG.ANA+3.3V)
C31523 1
C31524 10V47
R31506 270
IC37508 C0EBE0000218 (RESET FOR IC37501)
VDD
VOUT
DS
GND
NC
TO PP7502 FL DRIVE P.C.B. PP31903
AD 5V 1
FL DATA 2
GND 3
FL CLK 4
GND 5
FL CS 6
FL RST 7
GND 8
A28
A29
A30
A31
D37509 B0JACE000001
C31514 1
REG.5.2V
AU5V
REG.ANA3V
REG.ANA5V
REG.D5V
AD5V
REG.D1.5V
TO P6005 MAIN P.C.B. (SYSCON/SERVO/TIMER SECTION) P31905
REG.5.2V 1
REMOCON 2
GND 3
FL MUTE L 4
VTR CS 5
P.SAVE H 6
AD 5V 7
A32
A33
A34
A35
D37512 G0C680JA0019
P:Power Supply Section(Page: A)
D:Digital I/F Section(Page: B)
DMR-E75VP
Digital I/F Section (Power & Digital I/F P.C.B.(2/2))
Schematic Diagram (D)



DMR-E75VP
Digital I/F Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram (D)

DMR-E75VP
Digital I/F Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram (D)

AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
DVD VIDEO SIGNAL
DVD AUDIO SIGNAL

B

X SW15.5V
X SW13V
X SW5.8V
AD5V

Q37512
2SD0874A0L
(FAN MOTOR DRIVE)

C37639
0.1

R37602
820

R37603
18K

FAN MOTOR

P37503
1 FANDCOUT
2 GND
3 FANLOCK

TO PP7501
FL DRIVE P.C.B.
PP31904
1 DVD KEY IN1
2 DVD KEY IN2
3 DVD KEY IN3
4
5 DUB LED (H)
6
7
8 T WARP LED (H)
9
10

TO P9001
DIGITAL P.C.B.
(GLUE NET SECTION)
P39702
1 CPNCIN DM
2 V YIN DM
3 DGND
4 DGND
5
6 RGB CPSVIN
7 DGND
8 DGND
9
10
11 DGND
12 DGND
13
14 DGND
15
16 DGND
17 P OFF (L)
18 COUT DM
19 I2C5DT
20 DGND
21 I2C5CK
22 YOUT DM
23 SCURVE1
24 DGND
25 SCURVE0
26 GPYOUT DM
27 XINTM
28 DGND
29 XINTP
30 BPBOUT DM
31 XFWE
32 DGND
33 SCLK
34 RPROUT DM
35 XMPREQ
36 DGND
37 SBMTP
38
39 SBMTM
40 DGND
41
42
43
44 DGND
45
46 DGND
47
48 AADC R
49
50 AADC L
51
52 AUGND
53
54 AUGND
55
56 AUGND
57 DGND
58 MIXROUT DM
59 DGND
60 AUGND
61 DGND
62 MIXLOUT DM
63 DGND
64 AUGND
65 UARTP2G
66
67 DGND
68 AU5V
69 UARTG2P
70 XDMUTE
71
72 IECOUT
73
74 D3.3V
75 ANA3.3V
76 D3.3V
77 GND
78 D1.5V
79 ANA5V
80 D1.5V
81 X SW5.8V
82 D1.2V
83 D5V
84 D1.5V
85 X SW5.8V
86 D1.2V
87 X SW5.8V
88 D1.2V

CPNCIN DM
V YIN DM
K39704 0
C39701 0.1
C39702 0.1
LB34003 J0JCC0000103
COUT DM
LB37401 J0JHC0000032
LB37409 J0JHC0000032
YOUT DM
SCURVE1
LB37412 J0JCC0000103
SCURVE0
LB37441 J0JCC0000103
GPYOUT DM
BPBOUT DM
LB34004 J0JCC0000103
RPROUT DM
AADC R
AADC L
R34044 3900
R34043 3900
C34028 16V10
C34029 16V10
R34046 820
R34045 820
R34048 5600
R34047 5600
R39701 100
IECOUT
LB34002 J0JCC0000103
C31912 0.01
C31910 0.01
L31001 22u

A46
A52
C37636
1
IC37506
C0ABBA000073
(FAN MOTOR DRIVE)
VDD
GND
R37601
10K
A67
A68
R37596
47K

TO P6001
MAIN P.C.B.
(SYSCON/SERVO/
TIMER SECTION)
P31901
1 X SW5.8V
2 X SW5.8V
3 X SW13V
4 X SW13V
5 IECOUT
6 ANA5V
7 GND
8 GND
9
10
11 SCURVE0
12 SCURVE1
13 GND

LB34001 J0JCC0000103
IECOUT
SCURVE0
SCURVE1

TO P6002
MAIN P.C.B.
(SYSCON/SERVO/
TIMER SECTION)
P31902
1 X SW15.5V
2 MGND
3 GND
4 CPNCIN DM
5 GND
6 V YIN DM
7 GND
8 COUT DM
9 GND
10 YOUT DM
11 GND
12 GPYOUT DM
13 BPBOUT DM
14 RPROUT DM
15
16 DGND
17 DGND
18 AADC R
19 AADC L

CPNCIN DM
V YIN DM
COUT DM
YOUT DM
GPYOUT DM
BPBOUT DM
RPROUT DM
AADC R
AADC L
C33734 1
C33731 1
C33738 0.01
C33740 6V47
C33735 6V47

IC37505
C0EBE0000194
(RESET)
OUT VDD GND
R37597
15K
C37626
0.01
QR37502
UNR521200L
(SYS PFAIL (H) OUT)

K31902
K31991
K31995
K31998
K31999

A51
A11
A10
A48
A49
A58
A41
A43
A47
A40
A6
A7
A60
A59
A37

AU5V
REG.ANA3V
REG.D3.3V
REG.D1.5V
REG.ANA5V
REG.D1.2V
REG.D5V

LB31007 J0JHC0000032
LB31002 J0JHC0000032
LB31001 J0JHC0000032
LB31005 J0JHC0000032
LB31006 J0JHC0000032
LB31003 J0JHC0000032
LB31004 J0JHC0000032

C31911 0.01
C31004 0.01
C31001 0.01
C31002 0.01
C31909 0.01
C31003 0.01

P:Power Supply Section(Page: A)
D:Digital I/F Section(Page: B)

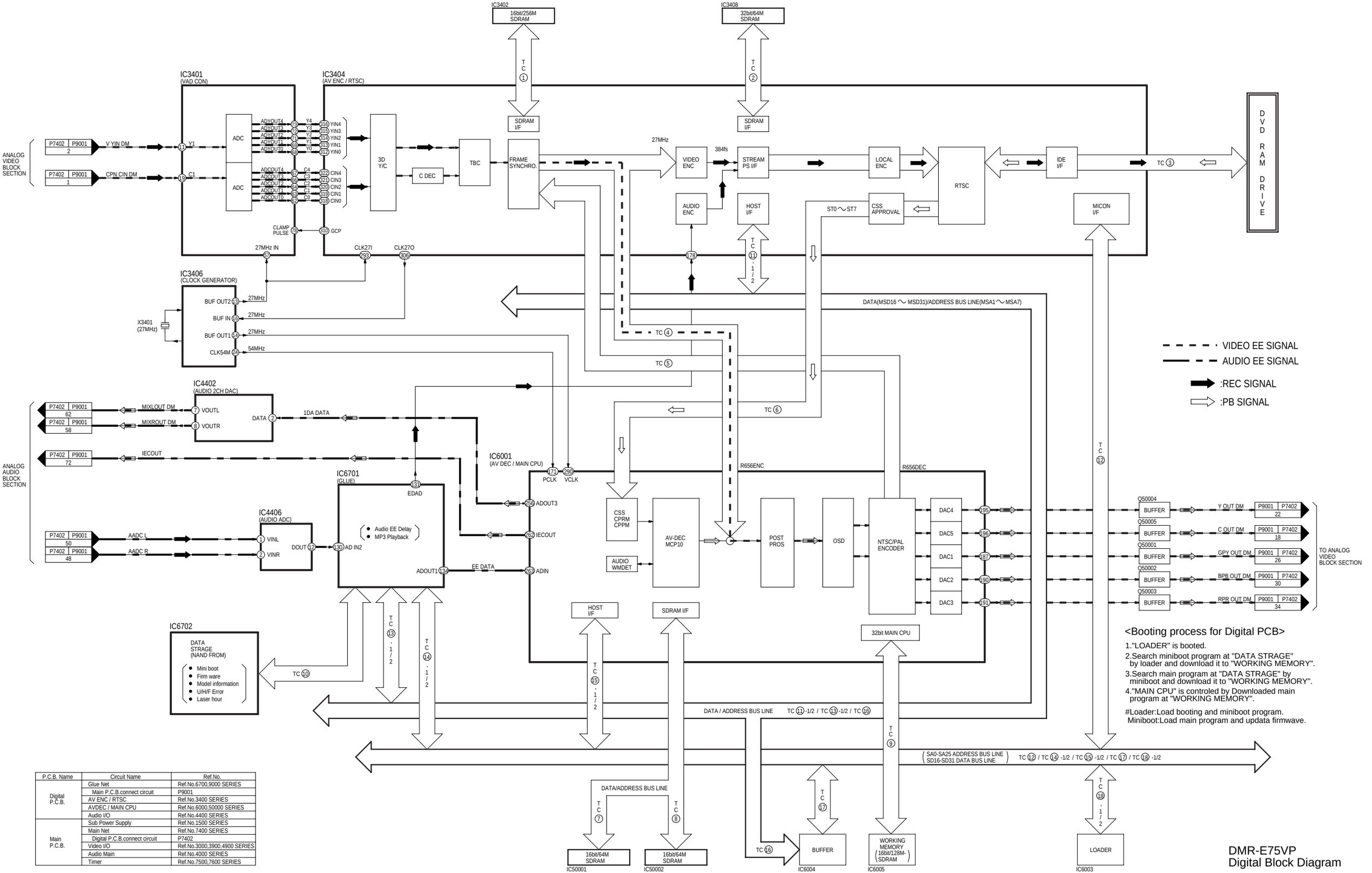
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
Digital I/F Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram (D)

DMR-E75VP
Digital I/F Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram (D)

25 26 27 28 29 30 31 32 33 34 35



<Booting process for Digital PCB>

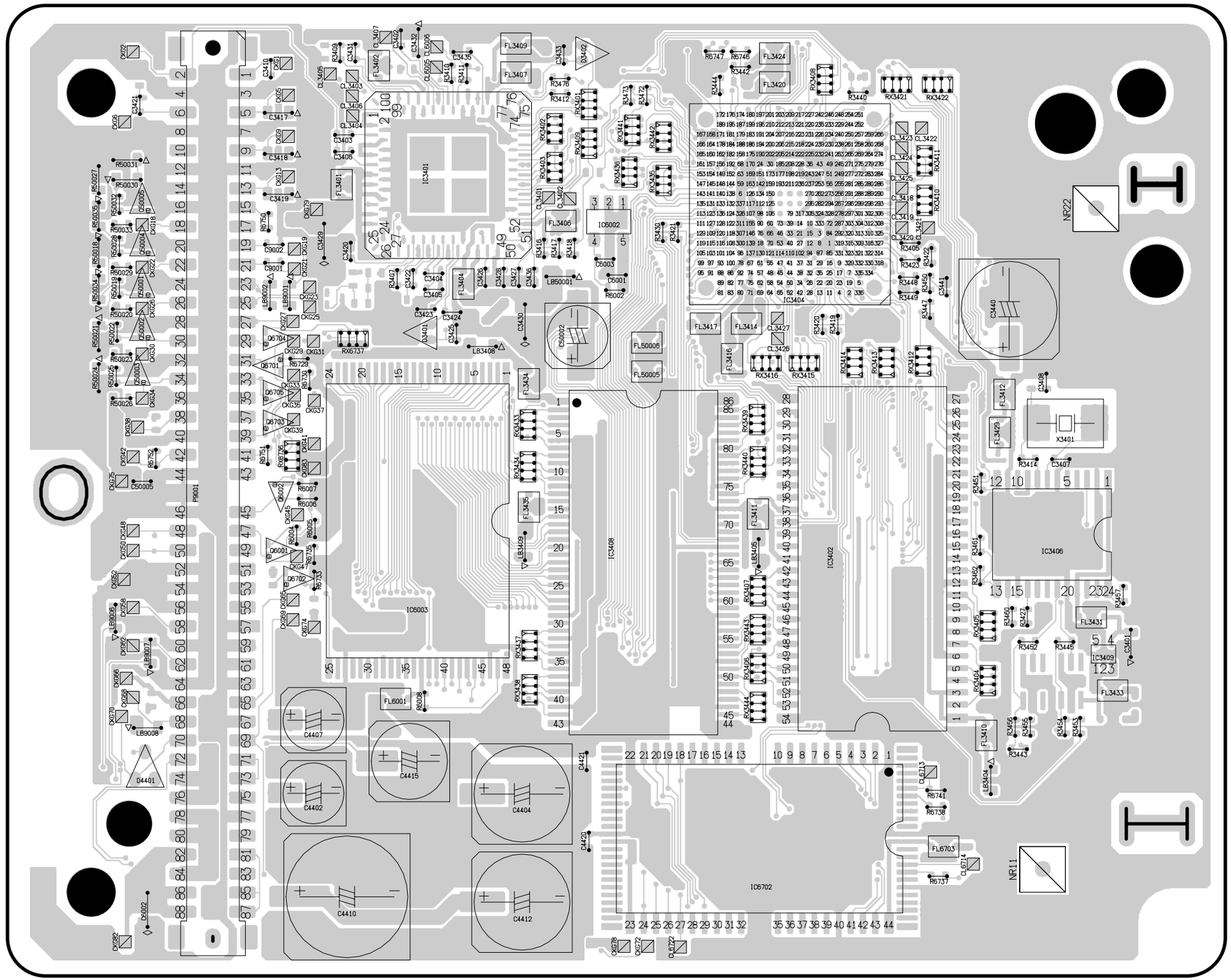
1."LOADER" is booted.
2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".
3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".
4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

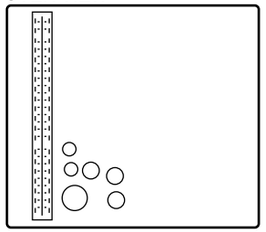
P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Glue Net	Ref.No.6700,9000 SERIES
	Main P.C.B.connect circuit	P9001
	AV ENC / RTSC	Ref.No.3400 SERIES
	AVDEC / MAIN CPU	Ref.No.6000,50000 SERIES
	Audio I/O	Ref.No.4400 SERIES
Main P.C.B.	Sub Power Supply	Ref.No.1500 SERIES
	Main Net	Ref.No.7400 SERIES
	Digital P.C.B.connect circuit	P7402
	Video I/O	Ref.No.3000,3900,4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500,7600 SERIES

DMR-E75VP
Digital Block Diagram

Digital P.C.B.



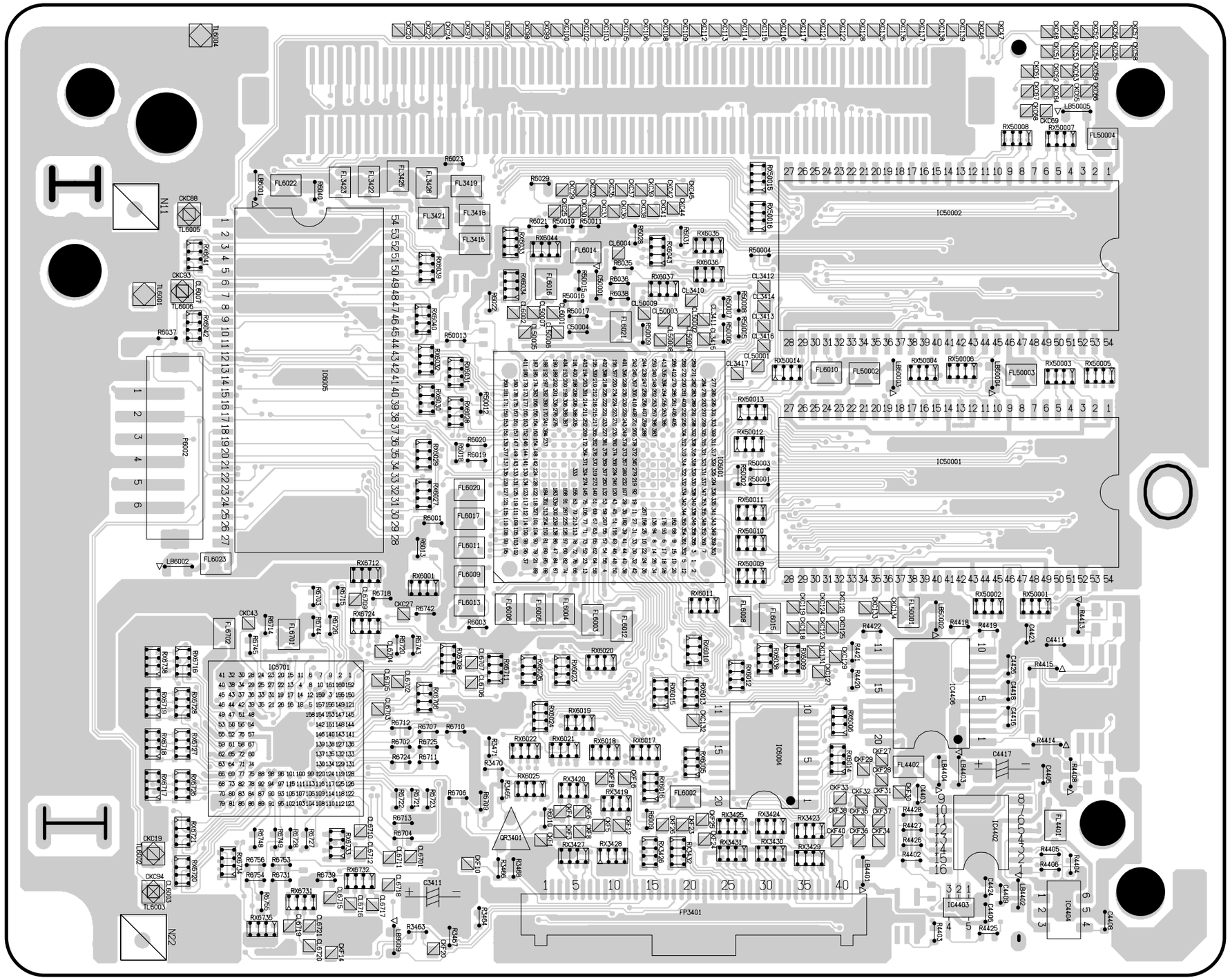
OVER VIEW



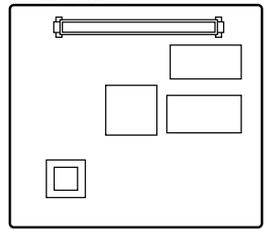
(Component Side)

DMR-E75VP
DIGITAL P.C.B. (Component Side)
(REP3717G)

Digital P.C.B.



OVER VIEW



(Foil Side)

DMR-E75VP
Digital P.C.B. (Foil Side)
(REP3717G)

Digital P.C.B.

Integrated Circuit

IC3401	C-2	C
IC3402	B-4	C
IC3404	C-3	C
IC3406	B-4	C
IC3408	B-3	C
IC3409	B-4	C
IC4402	A-4	F
IC4403	A-4	F
IC4404	A-4	F
IC4406	B-4	F
IC6001	B-3	F
IC6002	C-3	C
IC6003	B-2	C
IC6004	A-3	F
IC6005	C-2	F
IC6701	B-2	F
IC6702	A-3	C
IC50001	B-4	F
IC50002	C-4	F

Transistor

Q6001	B-2	C
Q6002	B-2	C
Q6701	C-2	C
Q6702	B-2	C
Q6703	C-2	C
Q6704	C-2	C
Q6705	C-2	C
Q50001	C-1	C
Q50002	C-1	C
Q50003	C-1	C
Q50004	C-1	C
Q50005	C-1	C

Transistor-resistor

QR3401	A-2	F

Test Point

CKC19	A-1	F
CKC20	D-2	F
CKC22	D-2	F
CKC24	D-2	F
CKC25	C-3	F
CKC27	B-2	F
CKC29	C-3	F
CKC30	C-3	F
CKC32	C-3	F
CKC33	C-3	F
CKC35	C-3	F
CKC36	C-3	F
CKC37	C-3	F
CKC38	C-3	F
CKC39	C-3	F
CKC41	C-3	F
CKC42	C-3	F
CKC43	B-2	F
CKC44	C-3	F
CKC45	C-3	F
CKC46	D-4	F
CKC47	D-4	F
CKC48	D-4	F
CKC49	D-4	F
CKC51	D-4	F
CKC52	D-4	F
CKC53	D-4	F
CKC54	D-4	F
CKC55	D-5	F
CKC56	D-5	F
CKC57	D-5	F
CKC58	D-5	F
CKC59	D-4	F
CKC61	D-4	F
CKC62	D-4	F
CKC63	D-4	F
CKC64	D-4	F
CKC65	D-4	F
CKC66	D-4	F
CKC67	D-4	F
CKC68	D-4	F
CKC69	D-4	F
CKC88	C-1	F
CKC93	C-1	F
CKC94	A-1	F
CKC95	D-2	F
CKC96	D-2	F
CKC97	D-2	F
CKC98	D-2	F
CKC99	D-3	F
CKC100	D-3	F
CKC102	D-3	F
CKC103	D-3	F
CKC105	D-3	F
CKC106	D-3	F
CKC108	D-3	F
CKC109	D-3	F
CKC112	D-3	F
CKC113	D-3	F
CKC114	D-3	F
CKC115	D-3	F
CKC116	D-3	F
CKC117	D-3	F
CKC118	B-3	F
CKC119	B-3	F
CKC121	D-4	F
CKC122	D-4	F
CKC123	B-4	F
CKC124	B-4	F
CKC125	B-4	F
CKC126	B-4	F
CKC127	B-4	F
CKC128	D-4	F
CKC129	B-4	F
CKC131	B-4	F
CKC132	B-3	F
CKC133	B-4	F
CKC134	B-4	F
CKC135	D-4	F
CKC136	D-4	F
CKC137	D-4	F
CKC138	D-4	F
CKC139	D-4	F
CKF1	A-3	F
CKF3	A-3	F
CKF4	A-3	F
CKF5	A-3	F
CKF6	A-3	F
CKF8	A-3	F
CKF10	A-2	F
CKF12	A-3	F
CKF14	A-2	F
CKF16	A-3	F
CKF18	A-3	F
CKF20	A-2	F
CKF23	A-3	F
CKF24	A-3	F
CKF25	A-3	F
CKF26	A-3	F
CKF27	A-4	F
CKF28	A-4	F
CKF29	A-4	F
CKF30	A-4	F
CKF31	A-4	F
CKF32	A-4	F
CKF33	A-4	F
CKF34	A-4	F
CKF35	A-4	F
CKF36	A-4	F
CKF37	A-4	F
CKF38	A-4	F
CKF40	A-4	F
CKG1	D-2	C
CKG2	D-1	C
CKG5	D-2	C
CKG6	D-1	C
CKG9	D-2	C
CKG13	C-2	C
CKG18	C-1	C
CKG19	C-2	C
CKG21	C-2	C
CKG22	C-1	C
CKG23	C-2	C
CKG25	C-2	C
CKG26	C-1	C
CKG27	C-2	C
CKG29	C-2	C
CKG30	C-1	C
CKG31	C-2	C
CKG33	C-2	C
CKG34	C-1	C
CKG35	C-2	C
CKG37	C-2	C
CKG38	C-1	C
CKG39	C-2	C
CKG41	C-2	C
CKG42	B-1	C
CKG45	B-2	C
CKG47	B-2	C
CKG48	B-1	C
CKG50	B-1	C
CKG52	B-1	C
CKG58	B-1	C
CKG62	B-1	C
CKG65	B-2	C
CKG66	B-1	C
CKG68	B-1	C
CKG69	B-2	C
CKG70	B-1	C
CKG72	A-3	C
CKG74	B-2	C
CKG75	B-1	C
CKG78	A-3	C
CKG79	C-2	C
CKG82	A-1	C
CKG83	B-2	C
CL3401	C-3	C
CL3402	C-3	C
CL3403	D-2	C
CL3404	D-2	C
CL3405	D-2	C
CL3406	D-2	C
CL3407	D-2	C
CL3410	C-3	F
CL3411	C-3	F
CL3412	C-3	F
CL3413	C-3	F
CL3414	C-3	F
CL3415	C-3	F
CL3416	C-3	F
CL3417	C-3	F
CL3418	C-4	C
CL3419	C-4	C
CL3420	C-4	C
CL3421	C-4	C
CL3422	D-4	C
CL3423	D-4	C
CL3424	D-4	C
CL3425	C-4	C
CL3426	C-3	C
CL3427	C-3	C
CL6001	C-3	F
CL6002	C-2	F
CL6003	A-1	F
CL6004	C-3	F
CL6005	D-2	C
CL6006	D-2	C
CL6007	C-1	F
CL6701	A-2	F
CL6702	B-2	F
CL6703	B-2	F
CL6704	B-2	F
CL6705	B-2	F
CL6706	B-2	F
CL6707	B-2	F
CL6709	B-2	F
CL6710	A-2	F
CL6711	A-2	F
CL6712	A-2	F
CL6713	A-4	C
CL6714	A-4	C
CL6715	A-2	F
CL6716	A-2	F
CL6717	A-2	F
CL6718	A-2	F
CL6719	A-2	F
CL6720	A-2	F
CL6721	A-2	F
CL6722	A-3	C
CL50001	C-3	F
CL50002	C-3	F
CL50003	C-3	F
CL50004	C-3	F
CL50005	C-3	F
CL50006	C-3	F
CL50007	C-3	F
CL50008	C-3	F
CL50009	C-3	F
TL6001	C-1	F
TL6002	A-1	F
TL6003	A-1	F
TL6004	D-1	F
TL6005	C-1	F
TL6006	C-1	F

Connector

FP3401	A-3	F
P6002	C-1	F
P9001	B-1	C

Diode

D3401	C-2	C
D3402	D-3	C
D4401	A-1	C

Crystal Osillator

X3401	C-4	C

Coil

LB3404	A-4	C
LB3405	B-3	C
LB3408	C-2	C
LB3409	B-2	C
LB4401	A-4	F
LB4402	A-4	F
LB4403	A-4	F
LB4404	A-4	F
LB6001	C-2	F
LB6002	B-1	F
LB9001	C-2	C
LB9002	C-2	C
LB9006	B-1	C
LB9007	B-1	C
LB9008	B-1	C
LB9009	A-2	F
LB50001	C-3	C
LB50002	B-4	F
LB50003	C-4	F
LB50004	C-4	F
LB50005	D-4	F

Filter

FL3401	C-2	C
FL3402	D-2	C
FL3404	C-2	C
FL3406	C-3	C
FL3407	D-2	C
FL3409	D-2	C
FL3410	B-4	C
FL3411	B-3	C
FL3412	C-4	C
FL3414	C-3	C
FL3415	C-2	F
FL3416	C-3	C
FL3417	C-3	C
FL3418	C-2	F
FL3419	C-2	F
FL3420	D-3	C
FL3421	C-2	F
FL3422	C-2	F
FL3423	C-2	F
FL3424	D-3	C
FL3425	C-2	F
FL3426	C-2	F
FL3429	C-4	C
FL3431	B-4	C
FL3433	B-4	C
FL3434	C-2	C
FL3435	B-2	C
FL4401	A-4	F
FL4402	A-4	F
FL6001	B-2	C
FL6002	A-3	F
FL6003	B-3	F
FL6004	B-3	F
FL6005	B-3	F
FL6006	B-2	F
FL6008	B-3	F
FL6009	B-2	F
FL6010	C-4	F
FL6011	B-2	F
FL6012	B-3	F
FL6013	B-2	F
FL6014	C-3	F
FL6015	B-3	F
FL6016	C-3	F
FL6017	B-2	F
FL6020	B-2	F
FL6021	C-3	F
FL6022	C-2	F
FL6023	B-1	F
FL6701	B-2	F
FL6702	B-1	F
FL6703	A-4	C
FL50001	B-4	F
FL50002	C-4	F
FL50003	C-4	F
FL50004	D-5	F
FL50005	C-3	C
FL50006	C-3	C

Capacitor

C3401	B-5	C
C3402	D-2	C
C3403	D-2	C
C3404	C-2	C
C3405	C-2	C
C3406	D-2	C
C3407	B-4	C
C3408	C-4	C
C3410	D-2	C
C3411	A-2	F
C3417	D-2	C
C3418	D-2	C
C3419	C-2	C
C3420	C-2	C
C3421	D-1	C
C3422	C-2	C
C3423	C-2	C
C3424	C-2	C
C3425	C-2	C
C3426	C-2	C
C3427	C-2	C
C3428	C-2	C
C3429	C-2	C
C3430	C-2	C
C3431	D-2	C
C3432	D-2	C
C3433	D-3	C
C3435	D-2	C
C3436	C-2	C
C3440	C-4	C
C3441	C-4	C
C4402	A-2	C
C4403	A-4	F
C4404	A-2	C
C4405	A-4	F
C4406	A-4	F
C4407	B-2	C
C4408	A-5	F
C4409	A-4	F
C4410	A-2	C
C4411	B-4	F
C4412	A-2	C
C4415	A-2	C
C4416	B-4	F
C4417	A-4	F
C4418	B-4	F
C4421	A-3	C
C4423	B-4	F
C4424	A-4	F
C4426	B-4	F
C6001	C-3	C
C6002	A-1	C
C6003	C-3	C
C9001	C-2	C
C9002	C-2	C
C50001	C-3	F
C50002	C-3	C
C50004	C-3	F
C50005	B-1	C

Resistor

R3405	C-4	C
R3407	C-2	C
R3409	D-2	C
R3410	D-2	C
R3411	D-2	C
R3412	D-3	C
R3414	B-4	C
R3416	C-3	C
R3417	C-3	C
R3418	C-3	C
R3419	C-4	C
R3420	C-3	C
R3421	C-3	C
R3422	C-4	C
R3423	C-4	C
R3427	B-4	C
R3430	C-3	C
R3440	D-4	C
R3442	D-3	C
R3443	A-4	C
R3444	D-3	C
R3445	B-4	C
R3447	C-4	C
R3448	C-4	C
R3449	C-4	C
R3450	C-4	C
R3451	B-4	C
R3452	B-4	C
R3453	B-4	C
R3454	B-4	C
R3455	B-4	C
R3456	B-4	C
R3457	B-5	C
R3460	B-4	C
R3461	B-4	C
R3462	B-4	C
R3463	A-2	F
R3464	A-2	F
R3465	A-2	F
R3466	A-2	F
R3467	A-2	F
R3468	A-2	F
R3470	A-2	F
R3471	A-2	F
R3472	D-3	C
R3473	D-3	C
R3476	D-3	C
R4402	A-4	F
R4403	A-4	F
R4404	A-4	F
R4405	A-4	F
R4406	A-4	F
R4408	A-4	F
R4413	B-4	F
R4414	A-4	F
R4415	B-4	F
R4418	B-4	F
R4419	B-4	F
R4420	B-4	F
R4421	B-4	F
R4422	B-4	F
R4425	A-4	F
R4426	A-4	F
R4427	A-4	F
R4428	A-4	F
R6001	B-2	F
R6002	C-3	C
R6003	B-2	F
R6004	B-2	C
R6005	B-2	C
R6006	B-2	C
R6007	B-2	C
R6008	B-2	C
R6009	A-3	F
R6010	A-3	F
R6013	B-2	F
R6018	B-2	F
R6019	B-2	F
R6020	C-2	F
R6021	C-3	F
R6022	C-2	F
R6023	C-2	F
R6028	C-3	F
R6029	C-3	F
R6031	C-3	F
R6035	C-3	F
R6036	C-3	F
R6037	C-1	F
R6038	C-3	F
R6040	C-2	F
R6702	A-2	F
R6703	B-2	F
R6704	A-2	F
R6706	A-2	F
R6707	B-2	F
R6709	A-2	F
R6710	B-2	F
R6711	A-2	F
R6712	B-2	F
R6713	A-2	F
R6714	B-2	F
R6715	B-2	F
R6718	B-2	F
R6720	B-2	F
R6721	A-2	F
R6722	A-2	F
R6723	A-2	F
R6724	A-2	F
R6725	A-2	F
R6726	B-2	F
R6727	A-2	F
R6728	A-2	F
R6729	C-2	C
R6730	C-2	C
R6731	A-2	F
R6733	B-2	C
R6735	B-2	C
R6737	A-4	C
R6738	A-4	C
R6739	A-2	F
R6741	A-4	C
R6742	B-2	F
R6743	B-2	F
R6744	B-2	F
R6745	B-2	F
R6746	D-3	C
R6747	D-3	C
R6748	A-2	F
R6749	A-2	F
R6750	C-2	C
R6751	C-2	C
R6752	B-1	C
R6753	A-2	F
R6754	A-2	F
R6755	A-2	F
R6756	A-2	F
R50001	B-3	F
R50002	B-3	F
R50003	B-3	F
R50004	C-3	F
R50005	C-3	F
R50006	C-3	F
R50007	C-3	F
R50008	C-3	F
R50009	C-3	F
R50010	C-3	F
R50011	C-3	F
R50012	C-2	F
R50013	C-2	F
R50015	C-3	F
R50016	C-3	F
R50017	C-3	F
R50018	C-1	C
R50019	C-1	C
R50020	C-1	C
R50021	C-1	C
R50022	C-1	C
R50023	C-1	C
R50024	C-1	C
R50025	C-1	C
R50026	C-1	C
R50027	C-1	C
R50028	C-1	C
R50029	C-1	C
R50030	C-1	C
R50031	D-1	C
R50032	C-1	C
R50033	C-1	C
R50034	C-1	C
R50035	C-1	C
RX3401	D-3	C
RX3402	D-3	C
RX3403	C-3	C
RX3404	B-4	C
RX3405	B-4	C
RX3406	B-3	C
RX3407	B-3	C
RX3408	D-4	C
RX3409	D-3	C
RX3410	C-4	C
RX3411	D-4	C
RX3412	C-4	C
RX3413	C-4	C
RX3414	C-4	C
RX3415	C-3	C
RX3416	C-3	C
RX3419	A-3	F
RX3420	A-3	F
RX3421	D-4	C
RX3422	D-4	C
RX3423	A-4	F
RX3424	A-3	F
RX3425	A-3	F
RX3426	A-3	F
RX3427	A-3	F
RX3428	A-3	F
RX3429	A-4	F
RX3430	A-3	F
RX3431	A-3	F
RX3432	A-3	F
RX3433	C-2	C
RX3434	B-2	C
RX3435	C-3	C
RX3436	C-3	C
RX3437	B-2	C
RX3438	B-2	C
RX3439	C-3	C
RX3440	B-3	C
RX3441	D-3	C
RX3442	D-3	C
RX3443	B-3	C
RX3444	B-3	C
RX6001	B-2	F
RX6005	A-3	F
RX6006	B-4	F
RX6009	B-3	F
RX6010	B-3	F
RX6011	B-3	F
RX6012	B-3	F
RX6013	B-3	F
RX6014	A-4	F
RX6015	B-3	F
RX6016	A-3	F
RX6017	A-3	F
RX6018	A-3	F
RX6019	B-3	F
RX6020	B-3	F
RX6021	A-3	F
RX6022	A-3	F
RX6023	B-3	F
RX6024	B-3	F
RX6025	A-3	F
RX6026	B-3	F
RX6027	B-2	F
RX6028	C-2	F
RX6029	B-2	F
RX6030	C-2	F
RX6031	C-2	F
RX6032	C-2	F
RX6033	C-2	F
RX6034	C-2	F
RX6035	C-3	F
RX6036	C-3	F
RX6037	C-3	F
RX6038	B-3	F
RX6039	C-2	F
RX6040	C-2	F
RX6041	C-1	F
RX6042	C-1	F
RX6043	C-3	F
RX6044	C-3	F
RX6706	B-2	F
RX6708	B-2	F
RX6711	B-2	F
RX6712	B-2	F
RX6716	B-1	F
RX6717	A-1	F
RX6718	A-1	F
RX6719	B-1	F
RX6720	A-1	F
RX6721	A-1	F
RX6724	B-2	F
RX6726	A-1	F
RX6727	A-1	F
RX6728	B-1	F
RX6731	A-2	F
RX6732	A-2	F
RX6733	A-2	F
RX6734	A-1	F
RX6735	A-2	F
RX6736	B-2	C
RX6737	C-2	C
RX6738	B-1	F
RX50001	B-4	F
RX50002	B-4	F
RX50003	C-4	F
RX50004	C-4	F
RX50005	C-5	F
RX50006	C-4	F
RX50007	D-4	F
RX50008	D-4	F
RX50009	B-3	F
RX50010	B-3	F
RX50011	B-3	F
RX50012	C-3	F
RX50013	C-3	F
RX50014	C-3	F
RX50015	C-3	F
RX50016	C-3	F

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE

FROM POWER SUPPLY SECTION

X SW +13V

X SW +5.8V

POWER ON Ⓗ
IC37501- 88

IP31400

IC31400
(POWER CONTROL)
FET DRIVE 7
V IN 1
V OUT 8
P Ⓛ:ON 2

Q31401
(FET DRIVE)
3 G
4 S
D 1 2 5 6

IC31509
(REG.D +1.2V)
1 V IN
V OUT 3
VB 2

D +1.2V

P39702	P9001
88	88
86	86
82	82

QR31301
DRIVE
(P. Ⓛ OUT)

IC31510
(REG.D +1.5V)
7 V IN
8 V IN
V OUT 1
VCC 3
VCC 4

D +1.5V

P39702	P9001
84	84
80	80
78	78

IP31401

IC31401
(REG.D +3.3V)
1 V IN
V OUT 8
P Ⓛ:ON 2

D +3.3V

P39702	P9001
76	76
74	74

QR31300
(POWER ON/OFF SWITCH)

X SW +5.8V

P31901	P6001
1,2	1,2

X SW +5.8V

P39702	P9001
87	87
85	85
81	81

IC31505
(REG.+5.2V)
5 CONT
8 V IN
V OUT 1

REG.+5.2V

P31905	P6005
1	1
7	7

AD +5V

PP31903	PP7502
1	1

IC31506
(REG.ANA +5V)
1 V IN
V OUT 3
P Ⓗ:ON 2

ANA +5V

P39702	P9001
79	79

IC31507
(REG.D +5V)
8 V IN
V OUT 1
P Ⓗ:ON 5

D +5V

P39702	P9001
83	83

IC31508
(REG.ANA +3.3V)
1 V IN
V OUT 3
P Ⓗ:ON 2

ANA +3.3V

P39702	P9001
75	75

DMR-E75VP
Digital I/F Regulator
Block Diagram

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

DMR-E75VP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

IC3404
MN85573
(AV ENC/RTSC)

DMR-E75VP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
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IC3408
C3ABPJ000048
(32bit/64M SDRAM)

QR3401
UNR521L00L
(SWITCH)

TO
DVD RAM DRIVE UNIT
FP3401

DMR-E75VP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
AVENC/RTSC Section (Digital P.C.B.(2/4))
Schematic Diagram (EN)

TIMER DISPLAY
DP7501
A2BB00000133

F+ F+ P36 P35 P34 P33 P32 P31 P30 P29 P28 P27 P26 P25 P24 P23 P22 P21 P20 P19 P18 P17 P16 P15 P14 P13 P12 P11 P10 P9 P8 P7 P6 P5 P4 P3 P2 P1 NC 10G 9G 8G 7G 6G 5G 4G 3G 2G 1G F- F-
1 2 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 61 62

R7510
5.6

LB7502
0

SEG12 SEG13 SEG14 SEG15 SEG16 SEG17 SEG18 SEG19 SEG20 SEG21 SEG22 SEG23 SEG24 SEG25 VCC2 SEG26
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17

SEG11 23
SEG10 24
SEG09 25
SEG08 26
SEG07 27
SEG06 28
SEG05 29
SEG04 30
SEG03 31
SEG02 32
SEG01 33
SEG00 34
SEG35 35
DIG17 36
DIG16 37
DIG15 38

SEG27 16
SEG28 15
SEG29 14
SEG30 13
SEG31 12
SEG32 11
SEG33 10
SEG34 9
VCC1 8
XIN 7
XOUT 6
VSS 5
SDATA 4
SCK 3
CS 2
RESET 1

IC7502
C0HBB0000033
(FIP DRIVE)

R7505
27K
C7525
100P
C7501
0.1
C7502
6V47
LB7501
0

DG14 DG13 DG12 DG11 DG10 DG09 DG08 DG07 DG06 DG05 DG04 DG03 DG02 DG01 DG00 VP
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54

TO PP31904
POWER AND DIGITAL I/F P.C.B.
(DIGITAL I/F SECTION)
PP7501

DVD KEY IN1 1
DVD KEY IN2 2
DVD KEY IN3 3
4
DUB LED 5
6
7
T WARP LED 8
9
10

S7501
EVQ11G04M
OPEN/CLOSE

R7504
1200
R7501
1200
R7502
1500

S7502
EVQ11G07K
TO DVD
S7503
EVQ11G07K
TO VHS
S7504
EVQ11G07K
REC
S7505
EVQ11G07K
CHUP
S7506
EVQ11G07K
CHDN

R7506
2200
R7507
3300

S7507
EVQ11G07K
PLAY
S7508
EVQ11G07K
STOP

R7539
220
D7507
B3AAA0000540
DUB
R7508
220
D7501
B3ABA0000402
T WARP

QR7510
UNR521100L
(DUB LED DRIVE)
QR7501
UNR521100L
(T WARP LED DRIVE)

TO P6601
MAIN P.C.B.
(SYSCON/TIMER SECTION)
PP7503

1
2
GND 3
4
GND 5
VP 6
F+ 7
F- 8

L7501
22u
C7505
1
Q7501
2SD1819A0L
(FIP DRIVE)
R7512
10K
R7513
68K

TO PP31903
POWER AND DIGITAL I/F P.C.B.
(DIGITAL I/F SECTION)
PP7502

GND 8
FL RST 7
FL CS 6
GND 5
FL CLK 4
GND 3
FL DATA 2
AD 5V 1

R7528
100K

R7514 0
R7515 100
R7526 100
R7527 100

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

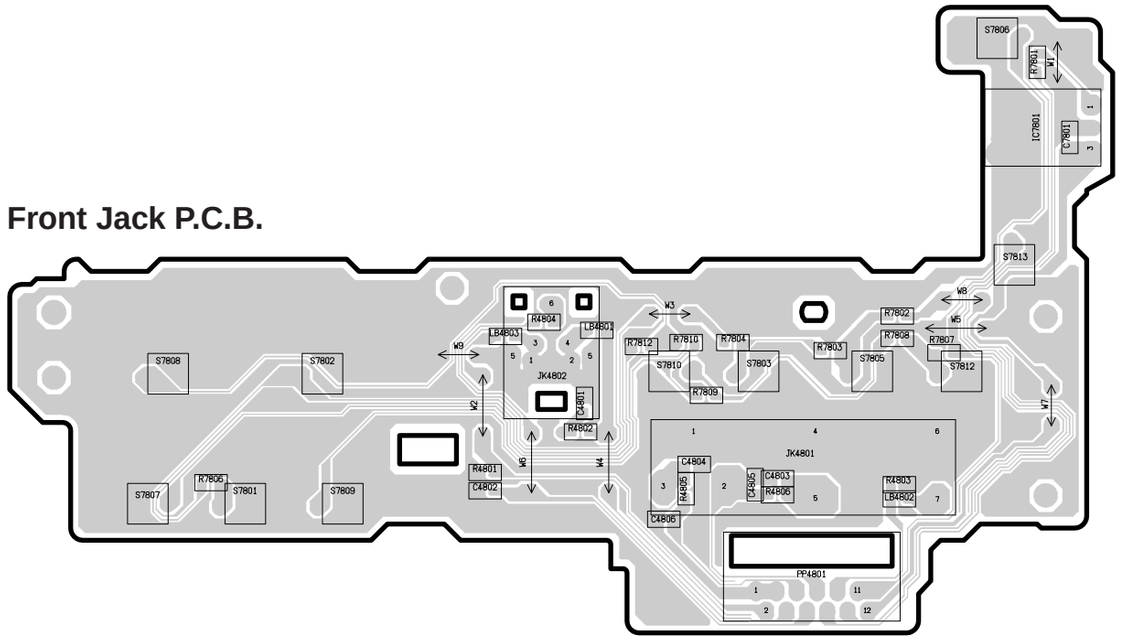
DMR-E75VP
FL Drive Schematic Diagram

H G F E D C B A
1 2 3 4 5 6 7 8 9 10 11 12

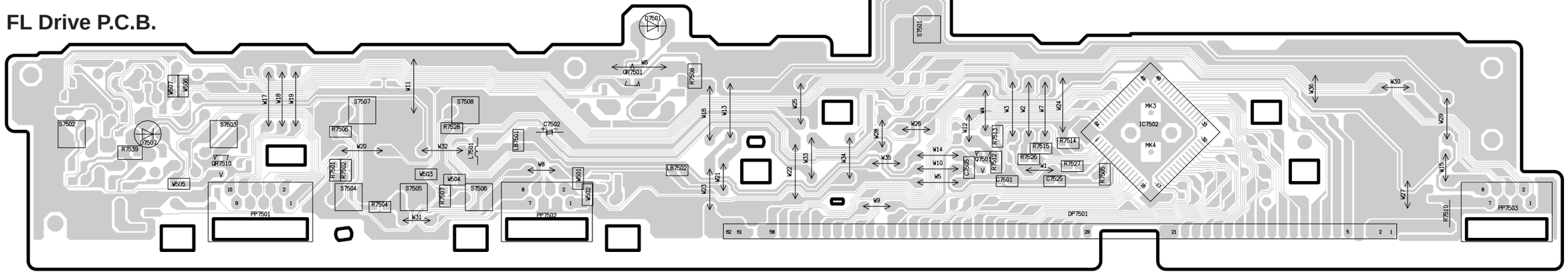
Ref No.	IC7801		
MODE	1	2	3
STOP	4.8	0	4.8

Ref No.	IC7502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	4.8	2.5	4.2	0.6	0	2.2	2.2	5.1	-23.3	-20.3	-17.3	-20.2	-26.3	-29.3	-22.7	-29.1	-29.3	5.1	-26.2	-29.3
Ref No.	IC7502																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	-23.2	-29.3	-29.3	-19.6	-22.8	-22.8	-29.1	-20.2	-26.3	-23.3	-26.3	-22.8	-20.1	-16.8	-23.1	-29.3	-26.3	-29.3	-29.3	-26.3
Ref No.	IC7502																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	-29.3	-22.9	-29.1	-23.2	-29.3	-29.3	-29.3	-29.3	-29.3	-29.3	-29.3	-29.3	-29.3	-26.3	-26.3	-26.3	-26.3	-26.3	-26.5	-26.3
Ref No.	IC7502																			
MODE	61	62	63	64																
STOP	-26.3	-26.3	-26.3	-29.7																
Ref No.	Q7501				QR7501				QR7510											
MODE	E	C	B		E	C	B		E	C	B									
STOP	-26.5	5.1	-26.5		0	3.7	0		0	3.8	0									

Front Jack P.C.B.



FL Drive P.C.B.



DMR-E75VP
Front Jack P.C.B. (VEP04868B)
FL Drive P.C.B. (VEP07A74B)

VIDEO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN REC MODE

IC7801
PNA4618M12VT
(REMOTE CTL.RECEIVER)

R7801
220

C7801
0.1

TO PS33001
MAIN P.C.B.
(SYSCON/SERVO/TIMER SECTION)
PP4801

GND	1
CPN Y IN2	2
GND	3
CPN C IN2	4
AUDIO L2 IN R	5
L2 SW	6
AUDIO L2 IN L	7
VTR KEY 2	8
VIDEO L2 IN	9
IR	10
VTR KEY 1	11
5V(AD)	12

R7802 1800
R7803 3300
R7804 4700
R7806 6800

S7806 EVQ11G07K POWER
S7805 EVQ11G07K FF
S7803 EVQ11G07K SKIP-R
S7802 EVQ11G07K STOP
S7801 EVQ11G07K CH UP

R7807 1800
R7808 3300
R7809 4700
R7810 6800
R7812 12K

S7813 EVQ11G07K EJECT
S7812 EVQ11G07K REW
S7810 EVQ11G07K SKIP-F
S7809 EVQ11G07K CH DN
S7808 EVQ11G07K PLAY
S7807 EVQ11G07K REC

L2
JK4802
K2HZ107A0001
FRONT S-VHS JACK

C
Y

LB4801 J0JCC0000103
LB4803 J0JCC0000103

R4804
1K

R4801 75
R4802 75
C4801 0.01
C4802 0.1

R4803
75

AUDIO IN
VIDEO IN
L ch/ MONO
R ch

JK4801
K2HA307A0003
FRONT A/V JACK
L2

LB4802
J0JCC0000103

C4804 100P
C4803 100P

R4806
J0JCC0000103

R4805
J0JCC0000103

C4805
1000P

C4806
1000P

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
Front Jack
Schematic Diagram

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

TO P39702
POWER & DIGITAL I/F P.C.B.
(DIGITAL I/F SEC.)
P9001

D1.2V 88
X SW 5.8V 87
D1.2V 86
X SW 5.8V 85
D1.5V 84
D5V 83
D1.2V 82
X SW 5.8V 81
D1.5V 80
ANA5V 79
D1.5V 78
GND 77
D3.3V 76
ANA3.3V 75
D3.3V 74
73
IECOUT 72
71
XDMUTE 70
UARTG2P 69
AU5V 68
DGND 67
66
UARTP2G 65
AUGND 64
DGND 63
MIXLOUT DM 62
DGND 61
AUGND 60
DGND 59
MIXROUT DM 58
DGND 57
AUGND 56
55
AUGND 54
53
AUGND 52
51
AADC L 50
49
AADC R 48
47
DGND 46
45
DGND 44
43
42
41
DGND 40
SBMTM 39
38
SBMTP 37
DGND 36
XMPREQ 35
RPROUT DM 34
SCLK 33
DGND 32
XFWE 31
BPBOUT DM 30
XINTP 29
DGND 28
XINTM 27
GPYOUT DM 26
SCURVE0 25
DGND 24
SCURVE1 23
YOUT DM 22
I2C5CK 21
DGND 20
I2C5DT 19
COUT DM 18
17
DGND 16
BSON 15
DGND 14
13
DGND 12
DGND 11
10
9
DGND 8
DGND 7
RGB CPSVIN 6
5
DGND 4
DGND 3
V YIN DM 2
CPNCIN DM 1

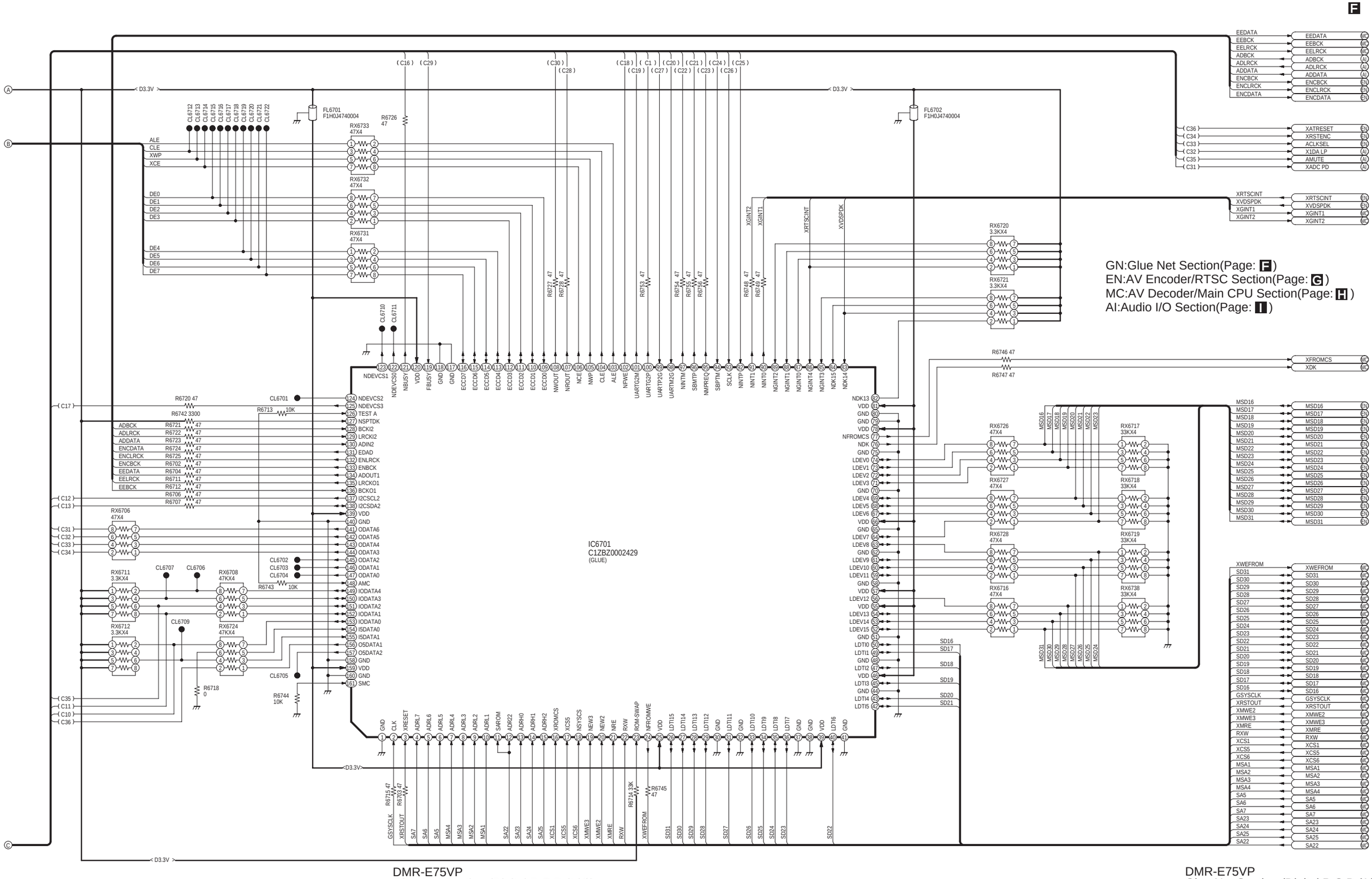
CKG82 CKG78 CKG74 CKG83
CKG79 CKG75
R6731 2200
CKG26 CKG27 CKG29 CKG30 CKG31 CKG33 CKG34 CKG35 CKG37 CKG39 CKG41 CKG42 CKG45 CKG47 CKG48 CKG50
CKG58 CKG62 CKG65 CKG68 CKG69 CKG70 CKG72
CKG52
R6750 47
LB9002 J0JHC0000032
LB9001 J0JHC0000032
CKG1 CKG2 CKG5 CKG6 CKG9 CKG13 CKG18 CKG19 CKG21 CKG22 CKG23 CKG25
C9002 47P
C9001 47P

D1.2V (MC)
DGND (AI EN MC)
D5V (EN)
ANA5V (EN)
D1.5V (EN)
D3.3V (AI EN MC)
ANA3.3V (EN MC)
LB9009 J0JHC0000046
IECOUT (MC)
XDMUTE (AI)
C1
LB9008 J0JHC0000045
AU5V (AI)
C2
LB9007 J0JCC0000103
MIXLOUT DM (AI)
LB9006 J0JCC0000103
MIXROUT DM (AI)
AUGND (AI)
AADC L (AI)
AADC R (AI)
ITA2M (MC)
ITM2A (MC)
R6752 100
R6751 47
PRGSEL (MC)
EPG ON (H) (MC)
C3
C4
C5
RPROUT DM (MC)
C6
C7
BPBOUT DM (MC)
C8
C9
GPYOUT DM (MC)
C10
C11
YOUT DM (MC)
C12
C13
COUT DM (MC)
BSON (MC)
R CR IN (EN)
B CB IN (EN)
RGB CPSVIN (EN)
G/CY IN (EN)
V YIN DM (EN)
CPNCIN DM (EN)
MC UARTG2M
MC UARTM2G
C14
C15
MC XIRQ0
C16
EN XVDSPCS
C17

D3.3V
FL6703 F1H0J4740004
R6739 1K
XCE
DE7 DE6 DE5 DE4
R6737 47
C28
C29
VCC 44 XCE 43 XRE 42 RXB 41 XSE 40 NC 39 NC 38 NC 37 NC 36 NC 35 NC 32 NC 31 NC 30 NC 29 NC 28 D7 27 D6 26 D5 25 D4 24 VCC 23
IC6702
REP3717G
(DATA STRAGE)
VSS 1 CLE 2 ALE 3 XWE 4 XWP 5 NC 6 NC 7 NC 8 NC 9 NC 10 NC 13 NC 14 NC 15 NC 16 NC 17 D0 18 D1 19 D2 20 D3 21 VSS 22
R6741 10K
CLE ALE XWP
DE0 DE1 DE2 DE3
R6738 47
C30

<D5V>
R6709 3300
R6710 3300
R6729 100K
R6730 10K
Q6701 B1ABCF000114 (BUFFER)
RX6734 47X4
RX6735 2.2KX4
RX6736 10KX4
R6733 10K
R6735 4700
RX6737 4.7KX4
Q6705 B1ABCF000114 (BUFFER)
Q6704 B1ABCF000114 (BUFFER)
Q6703 B1ABCF000114 (BUFFER)
Q6702 B1ABCF000114 (BUFFER)
C18 C15 C14 C19 C20 C7 C4 C5 C9 C21 C22 C23 C24 C25 C26 C27 C2 C3 C8 C6

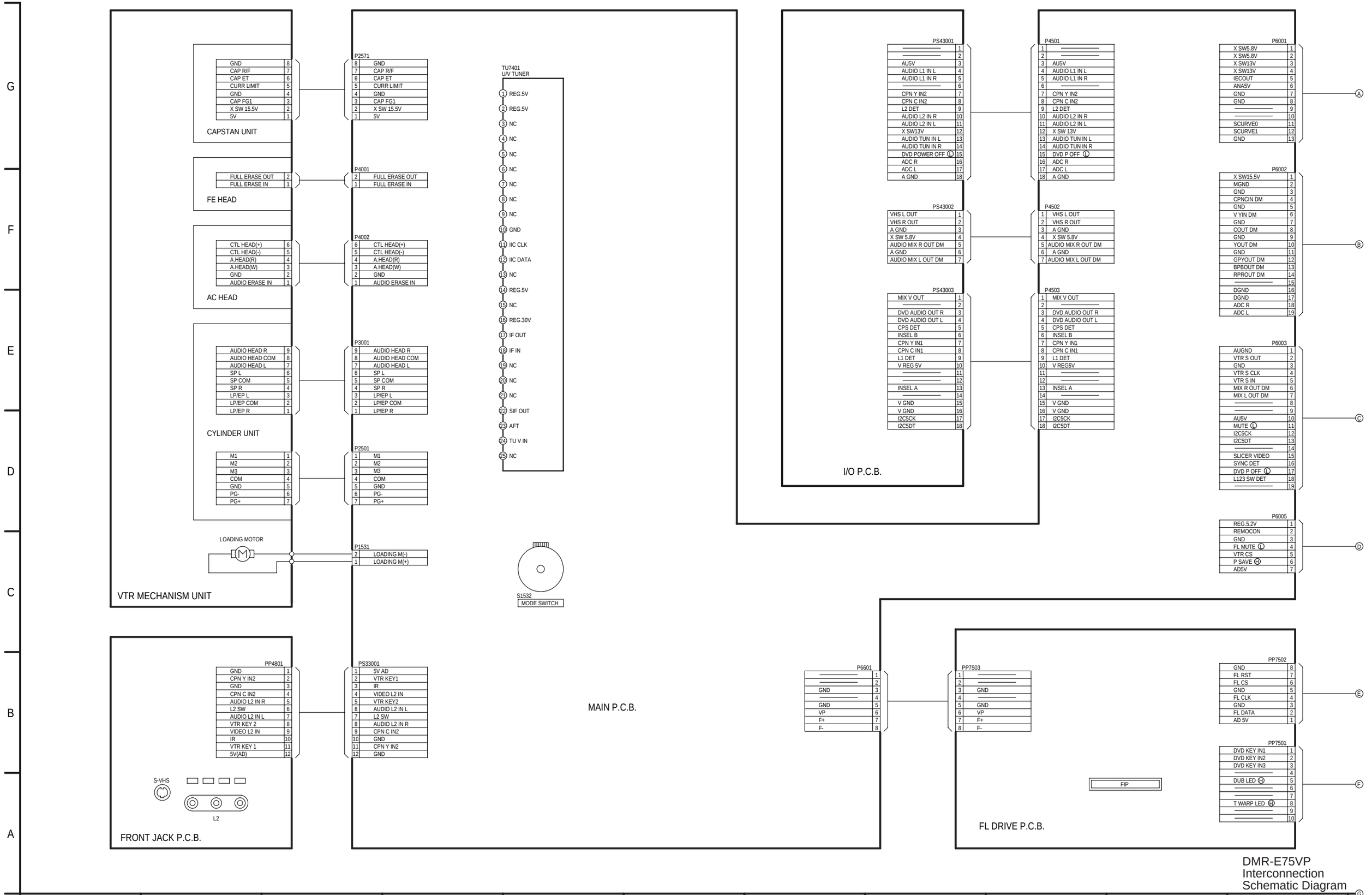
DMR-E75VP
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)



DMR-E75VP
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)



DMR-E75VP
Interconnection
Schematic Diagram

P31901

1	X SW5.8V
2	X SW5.8V
3	X SW13V
4	X SW13V
5	IECOUT
6	ANA5V
7	GND
8	GND
9	————
10	————
11	SCURVE0
12	SCURVE1
13	GND

P31902

1	X SW15.5V
2	MGND
3	GND
4	CPNCIN DM
5	GND
6	V YIN DM
7	GND
8	COUT DM
9	GND
10	YOUT DM
11	GND
12	GPYOUT DM
13	BPBOUT DM
14	RPROUT DM
15	————
16	DGND
17	DGND
18	AADC R
19	AADC L

P31903

1	AUGND
2	VTR S OUT
3	GND
4	VTR S CLK
5	VTR S IN
6	MIXROUT DM
7	MIXLOUT DM
8	————
9	————
10	AU5V
11	MUTE Ⓛ
12	I2C5CK
13	I2C5DT
14	————
15	SLICER VIDEO
16	SYNC DET
17	DVD POFF Ⓛ
18	L123 SW DET
19	————

P31905

1	REG.5.2V
2	REMOCON
3	GND
4	FL MUTE Ⓛ
5	VTR CS
6	P SAVE Ⓗ
7	AD 5V

PP31903

1	AD 5V
2	FL DATA
3	GND
4	FL CLK
5	GND
6	FL CS
7	FL RST
8	GND

PP31904

1	DVD KEY IN1
2	DVD KEY IN2
3	DVD KEY IN3
4	————
5	DUB LED Ⓗ
6	————
7	————
8	T WARP LED Ⓗ
9	————
10	————

P11101

A	
N	

P39702

CPNCIN DM	1
V YIN DM	2
DGND	3
DGND	4
————	5
RGB CPSVIN	6
DGND	7
DGND	8
————	9
————	10
DGND	11
DGND	12
————	13
DGND	14
————	15
DGND	16
P OFF Ⓛ	17
COUT DM	18
I2C5DT	19
DGND	20
I2C5CK	21
YOUT DM	22
SCURVE1	23
DGND	24
SCURVE0	25
GPYOUT DM	26
XINTM	27
DGND	28
XINTP	29
BPBOUT DM	30
XFWE	31
DGND	32
SCLK	33
RPROUT DM	34
XMPREQ	35
DGND	36
SBMTP	37
————	38
SBMTM	39
DGND	40
————	41
————	42
————	43
DGND	44
————	45
DGND	46
————	47
AADC R	48
————	49
AADC L	50
————	51
AUGND	52
————	53
AUGND	54
————	55
AUGND	56
DGND	57
MIXROUT DM	58
DGND	59
AUGND	60
DGND	61
MIXLOUT DM	62
DGND	63
AUGND	64
UARTP2G	65
————	66
DGND	67
AU5V	68
UARTG2P	69
XDMUTE	70
————	71
IECOUT	72
————	73
D3.3V	74
ANA3.3V	75
D3.3V	76
GND	77
D1.5V	78
ANA5V	79
D1.5V	80
X SW5.8V	81
D1.2V	82
D5V	83
D1.5V	84
X SW5.8V	85
D1.2V	86
X SW5.8V	87
D1.2V	88

P9001

1	CPNCIN DM
2	V YIN DM
3	DGND
4	DGND
5	G/CY IN
6	RGB CPSVIN/EPG TU IN
7	DGND
8	DGND
9	B/CB IN
10	CC FIELD
11	DGND
12	DGND
13	R/CR IN
14	DGND
15	BSON
16	DGND
17	POWER ON Ⓗ
18	COUT DM
19	I2C5DT
20	DGND
21	I2C5CK
22	YOUT DM
23	SCURVE1/I2C3CK
24	DGND
25	SCURVE0/I2C3DT
26	GPYOUT DM
27	XINTM
28	DGND
29	XINTP
30	BPBOUT DM
31	XFWE
32	DGND
33	SCLK
34	RPROUT DM
35	XMPREQ
36	DGND
37	SBMTP
38	CSYNC IN
39	SBMTM
40	DGND
41	EPG ON Ⓗ
42	PRGSEL
43	XSH RES
44	DGND
45	ITM2A
46	DGND
47	ITA2M
48	AADC R
49	NET P ON Ⓗ
50	AADC L
51	BOOT REQ
52	AUGND
53	HIFRDY
54	AUGND
55	HIFEBL
56	AUGND
57	DGND
58	MIXROUT DM
59	DGND
60	AUGND
61	DGND
62	MIXLOUT DM
63	DGND
64	AUGND
65	UARTP2G
66	VREF
67	DGND
68	AU5V
69	UARTG2P
70	XDMUTE
71	NET 4.4V
72	IECOUT
73	NET 4.4V
74	D3.3V
75	ANA3.3V
76	D3.3V
77	GND
78	D1.5V
79	ANA5V
80	D1.5V
81	X SW 5.8V
82	D1.2V
83	D5V
84	D1.5V
85	X SW 5.8V
86	D1.2V
87	X SW 5.8V
88	D1.2V

FP3401

RESET-	40
GND	39
DD7	38
DD8	37
DD6	36
DD9	35
DD5	34
DD10	33
DD4	32
DD11	31
DD3	30
DD12	29
DD2	28
DD13	27
DD1	26
DD14	25
DD0	24
DD15	23
GND	22
————	21
DMARQ	20
GND	19
DIOW-	18
GND	17
DIOR-	16
GND	15
IORDY	14
CSEL	13
DMACK-	12
GND	11
INTRQ	10
————	9
DA1	8
————	7
DA0	6
DA2	5
CS0-	4
CS1-	3
————	2
GND	1

DIGITAL P.C.B.

P.C.B.Name	Circuit Name	Ref.No.
Digital P.C.B.	AV ENC/RTSC	Ref.No.3400 SERIES
	AVDEC/MAIN CPU	Ref.No.6000,50000 SERIES
	Audio I/O	Ref.No.4400 SERIES
	Glue Net	Ref.No.6700,9000 SERIES

POWER & DIGITAL I/F P.C.B.

FAN MOTOR

P37503

FAN PWM	1
GND	2
FAN LOCK Ⓗ	3

P11103

DR 12V	1
GND	2
GND	3
DR 5V	4

DVD RAM DRIVE

FP601

1	RESET-
2	GND
3	DD7
4	DD8
5	DD6
6	DD9
7	DD5
8	DD10
9	DD4
10	DD11
11	DD3
12	DD12
13	DD2
14	DD13
15	DD1
16	DD14
17	DD0
18	DD15
19	GND
20	KEY
21	DMARQ
22	GND
23	DIOW-
24	GND
25	NIOR-
26	GND
27	IORDY
28	CSEL
29	DMACK-
30	GND
31	INTRQ
32	IOCS16-
33	DA1
34	PD1AG-
35	DA0
36	DA2
37	CS0-
38	CS1-
39	DASP-
40	GND

P101

1	DR 12V
2	GND
3	GND
4	DR 5V

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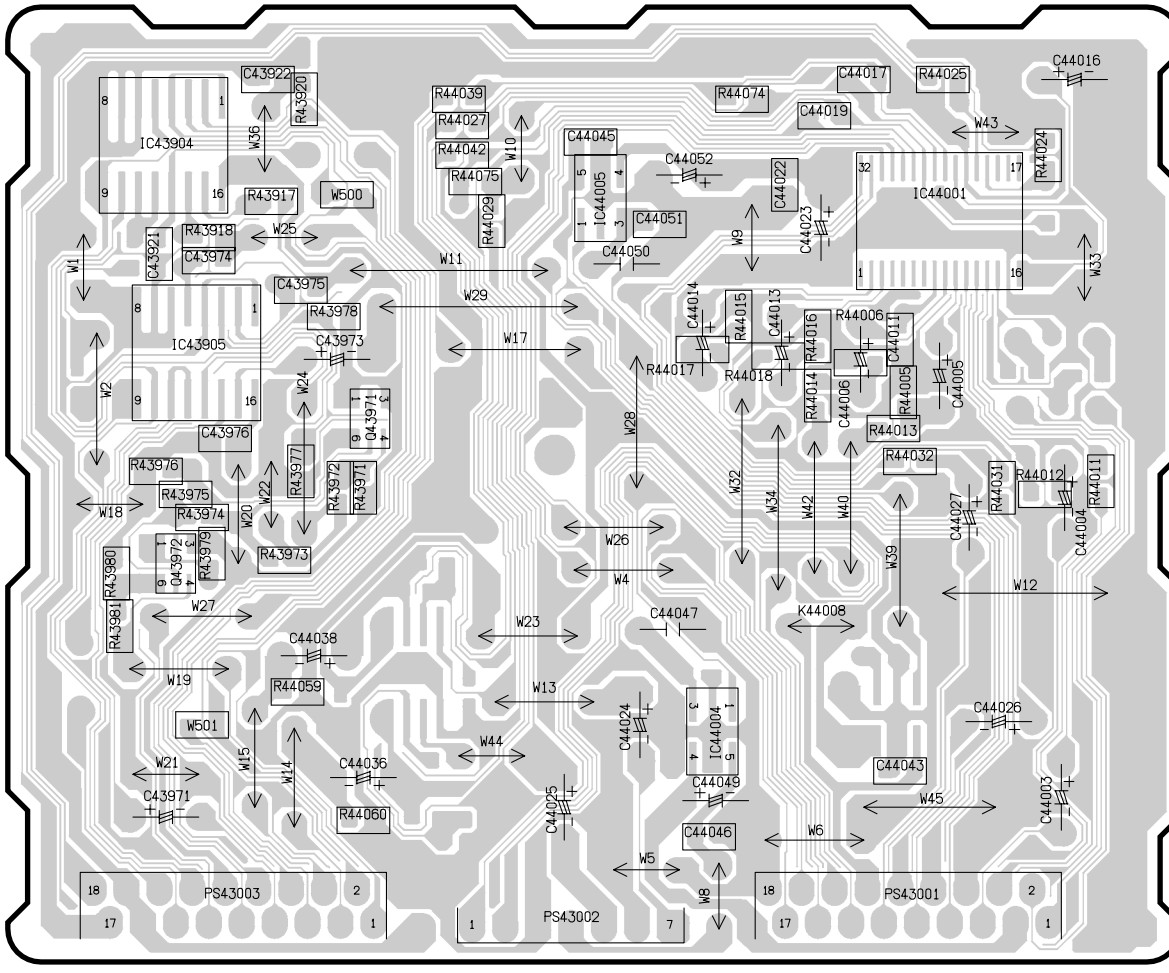
DMR-E75VP
Interconnection
Schematic Diagram

DMR-E75VP
Interconnection
Schematic Diagram

I/O P.C.B.

Integrated Circuit		C43922	D-2	C44019	D-4	C44051	C-3	R43980	B-1	R44029	C-2
IC43904	D-1	C43971	A-1	C44022	C-3	C44052	C-3	R43981	B-1	R44031	B-4
IC43905	C-1	C43973	C-2	C44023	C-3	**Resistor**		R44005	C-4	R44032	C-4
IC44001	C-4	C43974	C-1	C44024	B-3	R43917	C-2	R44006	C-4	R44039	D-2
IC44004	B-3	C43975	C-2	C44025	A-3	R43918	C-1	R44011	B-4	R44042	D-2
IC44005	C-3	C43976	C-2	C44026	B-4	R43920	D-2	R44012	B-4	R44059	B-2
Transistor		C44003	A-4	C44027	B-4	R43971	B-2	R44013	C-4	R44060	A-2
Q43971	C-2	C44004	B-4	C44036	A-2	R43972	B-2	R44014	C-3	R44074	D-3
Q43972	B-1	C44005	C-4	C44038	B-2	R43973	B-2	R44015	C-3	R44075	C-2
Connector		C44006	C-4	C44043	B-4	R43974	B-1	R44016	C-3		
PS43001	A-4	C44011	C-4	C44045	D-3	R43975	B-1	R44017	C-3		
PS43002	A-3	C44013	C-3	C44046	A-3	R43976	C-1	R44018	C-3		
PS43003	A-2	C44014	C-3	C44047	B-3	R43977	C-2	R44024	D-4		
Capacitor		C44016	D-4	C44049	A-3	R43978	C-2	R44025	D-4		
C43921	C-1	C44017	D-4	C44050	C-3	R43979	B-1	R44027	D-2		

I/O P.C.B.



DMR-E75VP
I/O P.C.B.
(VEP03G66B)

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
DVD AUDIO SIGNAL

TO P4501
MAIN P.C.B.
(Hi-Fi AUDIO SECTION)
PS43001

	1	
	2	
AU5V	3	< AU+5V>
AUDIO L1 IN L	4	(A3)
AUDIO L1 IN R	5	(A4)
	6	
CPN Y IN2	7	(A5)
CPN C IN2	8	(A6)
L2 DET	9	(A7)
AUDIO L2 IN R	10	(A8)
AUDIO L2 IN L	11	(A9)
X SW13V	12	< X SW13V >
AUDIO TUN IN L	13	(A10)
AUDIO TUN IN R	14	(A11)
DVD POWER OFF Ⓛ	15	
ADC R	16	(A12)
ADC L	17	(A13)
A GND	18	

TO P4502
MAIN P.C.B.
(Hi-Fi AUDIO SECTION)
PS43002

VHS L OUT	1	(A14)
VHS R OUT	2	(A15)
A GND	3	
X SW 5.8V	4	< X SW5.8V >
AUDIO MIX R OUT DM	5	(A16)
A GND	6	
AUDIO MIX L OUT DM	7	(A17)

TO P4503
MAIN P.C.B.
(Hi-Fi AUDIO SECTION)
PS43003

MIX V OUT	1	
	2	
DVD AUDIO OUT R	3	(A18)
DVD AUDIO OUT L	4	(A19)
CPS DET	5	(A20)
INSEL B	6	(A21)
CPN Y IN1	7	(A22)
CPN C IN1	8	(A23)
L1 DET	9	(A24)
V REG 5V	10	< V REG5V>
	11	
	12	
INSEL A	13	(A27)
	14	
V GND	15	
V GND	16	
I2C5CK	17	(A29)
I2C5DT	18	(A30)

IC44005
C0CBCDC00027
(REG.+12V)

IC44004
C0CBCDC00026
(REG.AU+5V)

IC44001
C1AB00001920
(AUDIO BUFFER & SELECTOR SWITCH)

IC43904
C0JBAR000285
(LINE DET.SELECTOR SW.)

IC43905
C0JBAR000285
(Y/C IN SELECTOR SW.)

Q43972
XN0460100L
(VIDEO AMP)

Q43971
XN0650100L
(Y/C MIX)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
Audio/Video I/O Schematic Diagram

Ref No.	IC43904																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0.1	4.5	5.0	0.1	5.0	0	0	0	0	4.8	0	0.1	0.1	0.1	0.1	5.1				
PLAY	0.1	4.5	5.0	0.1	5.0	0	0	0	0	4.8	0	0.1	0.1	0.1	0.1	5.1				
STOP	0.2	4.5	5.1	0.2	5.0	0	0	0	0	4.8	0.2	0.2	0.1	0.1	0.1	5.1				
Ref No.	IC43905																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0.1	0	2.0	0.1	2.0	0	0	0	0	4.8	0	0	2.0	2.0	0.3	5.1				
PLAY	0.1	0	2.0	0.1	2.0	0	0	0	0	4.8	0	0	2.0	2.0	0.3	5.1				
STOP	0	0	2.0	0.1	2.0	0	0	0	0	4.8	0	0	2.0	2.0	0.3	5.1				
Ref No.	IC44001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0.1	4.4	4.4	0.1	0.1	4.5	4.5	3.4	0	0	0	0	4.4	4.4	0	4.5	0	4.5	0	0
PLAY	0.1	4.4	4.4	0.1	0.1	4.5	4.5	3.4	0	0	0	0	4.4	4.4	0	4.5	0	4.5	0	0
STOP	0.1	4.4	4.4	0.1	0.1	4.5	4.5	3.4	0	4.4	4.4	0	4.4	4.4	0	4.5	0	4.5	0	5.0
Ref No.	IC44001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	5.0	0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	9.0	4.4	4.4								
PLAY	5.0	0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	9.0	4.4	4.4								
STOP	5.0	0	0	4.5	4.5	4.5	0	4.5	4.5	9.0	4.4	4.4								
Ref No.	IC44004						IC44005													
MODE	1	2	3	4	5		1	2	3	4	5									
REC	4.8	0	1.3	5.0	0		4.8	0	1.3	9.0	12.9									
PLAY	4.8	0	1.3	5.0	0		4.8	0	1.3	9.0	12.9									
STOP	4.8	0	1.3	5.0	0		4.8	0	1.3	9.0	12.9									
Ref No.	Q43971							Q43972												
MODE	1	2	3	4	5	6		1	2	3	4	5	6							
REC	5.1	2.0	5.1	2.0	1.3	1.3		4.5	4.5	5.1	1.3	1.3	0.7							
PLAY	5.1	2.0	5.1	2.0	1.3	1.3		4.5	4.5	5.1	1.3	1.3	0.7							
STOP	5.1	2.0	5.1	2.0	1.3	1.3		4.5	4.5	5.1	1.3	1.3	0.7							

Main P.C.B.

Integrated Circuit	
IC1511	D-2
IC1512	B-2
IC2501	E-4
IC3001	C-4
IC3002	E-5
IC3701	E-7
IC3901	C-6
IC3903	C-6
IC4301	C-6
IC4302	C-7
IC4501	B-5
IC6001	C-2
IC6201	C-3
IC6301	E-3
IC7301	A-2
IC7401	B-7
IC7403	A-7
Transistor	
Q1341	B-7
Q1351	B-6
Q1352	A-1
Q1353	B-6
Q1501	F-3
Q1502	A-3
Q3001	C-4
Q3004	D-4
Q3701	D-7
Q3702	D-7
Q3903	D-6
Q4001	D-5
Q4002	C-5
Q4081	A-2
Q4084	A-2
Q6305	E-1
Q7401	A-6
Q7901	C-1
Q7902	E-1
Q7903	E-1
Transistor-resistor	
QR1351	A-6
QR1352	A-6
QR3701	D-6
QR3951	D-7
QR3952	D-7
QR3953	D-7
QR4082	A-2
QR4301	C-6
QR4302	C-6
QR4303	C-6
QR4304	C-6
QR4801	C-5
QR7901	F-1
Test Point	
TL23	D-2
TL24	B-2
TL1002	B-1
TL2015	D-3
TL2502	E-4
TL4501	B-4
TL4502	A-4
TL4507	B-4
TL4551	B-4
TL4552	A-5
TL6001	C-3
TL6002	F-1
TL6004	C-2
TL6005	B-3
TL6010	C-2
TW1004	E-1
TW1342	A-8
TW1343	F-5
TW2001	F-5
TW2002	F-5
TW3001	A-3
TW4501	C-6
TW4502	A-4
TW6001	C-3
TW6002	C-3
TW6008	D-2

Connector	
JK3901	B-8
JK3902	D-8
JK3904	E-8
P1531	F-5
P2501	E-5
P2571	E-4
P3001	C-5
P4001	B-4
P4002	D-5
P4501	B-6
P4502	B-6
P4503	B-7
P6001	F-6
P6002	F-6
P6003	F-5
P6005	F-1
P6601	D-1
PS33001	A-1
Diode	
D1341	B-7
D1351	A-1
D1501	D-3
D2001	D-3
D2002	D-3
D2501	F-4
D2502	F-4
D3701	D-7
D3901	D-6
D3903	E-6
D4501	B-4
D6306	E-1
D7402	A-7
D7751	F-1
D7752	E-1
D7753	F-1
D7754	F-1
D7901	C-1
D7902	C-1
D7903	D-1
D7904	C-1
D7905	D-1
D7906	C-1
Crystal Osillator	
X3002	C-4
X6001	C-2
X6002	C-2
IC Protector	
IP6301	E-2
Coil	
L3002	C-5
L3003	D-4
L3004	C-4
L3005	C-4
L3006	C-4
L3701	E-7
L3702	F-6
L3703	F-6
L4001	C-5
L4061	A-2
L4501	B-4
L4502	B-4
L5001	C-4
L6001	C-2
L6002	C-2
L6004	C-2
L7301	A-2
L7401	A-7
L7901	F-3
L7902	F-3
LB3704	E-7
LB3705	E-7
LB3706	F-7
LB3901	C-7
LB3903	C-7
LB3905	B-7
LB3907	B-7
LB3908	B-7
LB3911	D-8
LB3912	D-8

LB3913	D-8
LB3914	D-8
LB3915	D-7
LB3916	D-7
LB3917	C-7
LB3918	C-7
LB7402	A-7
LB7403	A-7
LB7408	B-7
LB7410	A-7
LB7411	B-7
LB7901	C-1
Filter	
FL4562	A-4
Capacitor	
C1341	B-7
C1342	B-7
C1351	A-1
C1352	A-1
C2001	D-3
C2003	E-4
C2051	D-2
C2053	D-2
C2054	C-3
C2055	C-3
C2099	D-5
C2501	F-3
C2502	F-3
C2504	F-4
C2505	F-4
C2506	F-4
C2507	F-4
C2508	E-4
C2509	F-3
C2510	E-4
C2511	E-4
C2512	F-4
C2513	E-4
C2515	F-4
C2518	E-4
C2519	F-4
C2551	E-4
C2552	E-4
C2561	E-4
C2562	C-3
C2571	E-5
C3001	C-5
C3002	D-5
C3003	D-5
C3005	D-5
C3006	D-5
C3007	D-5
C3008	D-5
C3009	D-5
C3010	E-5
C3011	D-5
C3012	D-4
C3014	D-4
C3015	D-4
C3017	D-4
C3018	E-5
C3019	D-4
C3020	D-4
C3021	D-4
C3023	D-4
C3024	C-4
C3025	C-4
C3027	E-5
C3028	C-4
C3029	C-4
C3030	C-4
C3031	C-4
C3032	C-4
C3033	C-4
C3034	C-4
C3035	C-4
C3036	C-4
C3037	C-4
C3038	C-4
C3039	C-4

C3040	C-4
C3041	C-4
C3044	C-4
C3045	E-5
C3048	D-5
C3050	D-4
C3053	D-4
C3073	E-5
C3074	D-4
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C3702	E-7
C3703	D-6
C3704	E-7
C3705	E-6
C3706	D-7
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C3723	E-7
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C3725	E-7
C3726	E-7
C3727	E-7
C3728	E-7
C3729	F-7
C3730	F-7
C3732	F-6
C3733	F-6
C3736	F-6
C3737	F-6
C3739	F-6
C3741	F-6
C3742	F-6
C3743	E-6
C3744	E-6
C3745	F-6
C3746	E-6
C3747	E-6
C3751	D-7
C3752	E-7
C3753	E-8
C3909	B-7
C3910	B-7
C3917	D-7
C3924	D-7
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C3927	C-6
C3928	D-6
C3945	C-6
C3946	C-6
C3960	D-7
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C4004	C-5
C4005	C-5
C4006	C-5
C4007	C-5
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C4009	C-5
C4011	C-5
C4012	C-5
C4013	C-5
C4017	C-5
C4019	C-5
C4081	A-2
C4082	B-2
C4083	A-2
C4084	A-2
C4201	A-2
C4301	C-6
C4302	C-6
C4303	C-7

C4304	C-7
C4305	C-6
C4306	C-6
C4307	B-6
C4501	C-5
C4502	B-5
C4503	B-5
C4504	B-5
C4505	C-5
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C4511	B-5
C4512	B-4
C4513	B-4
C4514	B-4
C4515	B-4
C4516	B-4
C4521	B-5
C4522	B-4
C4523	B-5
C4524	B-5
C4525	B-5
C4526	C-7
C4534	C-5
C4535	B-4
C4537	B-4
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C4573	B-5
C4574	B-5
C4601	B-5
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C6003	C-2
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C6103	C-2
C6111	D-2
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C6303	E-1
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C7304	A-2
C7305	A-3
C7306	A-3
C7307	A-3
C7308	A-3
C7309	A-2
C7310	A-2
C7311	A-2

C7312	A-2
C7313	A-2
C7314	A-3
C7315	A-2
C7316	A-2
C7317	A-3
C7318	A-3
C7319	A-3
C7320	A-3
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C7905	D-1
C7906	C-1
C7907	D-1
C7908	D-1
C7909	D-1
C7910	C-1
Resistor	
R1341	B-7
R1351	A-1
R1352	B-6
R1353	B-6
R1501	D-2
R1502	A-3
R1503	D-3
R1511	B-2
R1512	D-2
R1513	D-2
R2001	E-4
R2002	D-3
R2099	D-5
R2501	E-4
R2502	E-4
R2503	E-4
R2514	E-4
R2515	E-4
R2516	F-4
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R2561	C-3
R2562	E-4
R2563	C-3
R2564	E-4
R2565	E-4
R3001	C-5
R3002	C-5
R3009	C-4
R3013	C-4
R3014	C-4
R3017	C-4
R3021	D-5
R3022	D-5
R3023	D-5
R3030	D-4
R3031	D-4
R3032	C-5
R3035	C-4
R3037	C-4
R3052	D-4
R3053	D-4
R3706	E-7
R3707	E-7
R3708	F-7
R3709	E-8

R3710	E-7
R3711	E-7
R3712	E-7
R3714	E-6
R3715	F-6
R3716	E-6
R3717	E-6
R3718	E-6
R3719	E-6
R3720	E-6
R3724	E-6
R3727	D-7
R3728	D-7
R3729	D-7
R3730	D-7
R3734	E-7
R3735	E-8
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R3903	B-7
R3904	B-7
R3905	B-7
R3909	D-7
R3910	D-7
R3911	C-7
R3912	C-7
R3916	D-7
R3918	D-7
R3919	D-8
R3926	D-6
R3927	D-6
R3928	D-6
R3951	D-7
R3952	D-7
R3953	D-7
R3954	D-8
R3955	D-7
R3956	D-7
R3957	D-7
R3961	C-6
R3962	C-6
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R4003	C-5
R4004	C-5
R4005	C-5
R4006	C-5
R4007	C-5
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R4009	A-2
R4011	C-5
R4012	C-5
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R4082	A-2
R4086	A-2
R4087	A-2
R4301	C-6
R4302	C-6
R4303	C-6
R4304	B-6
R4305	C-6
R4306	C-6
R4307	C-6
R4308	B-6
R4309	C-7
R4310	C-6
R4311	B-6
R4500	B-4
R4501	B-5
R4502	B-5
R4503	B-5
R4505	B-5
R4506	B-5
R4507	A-4
R4508	B-4
R4509	C-5
R4510	C-5
R4511	C-5
R4512	C-5
R4515	B-5
R4518	B-5
R4519	C-5

R4520	C-5
R4521	C-5
R4522	B-4
R4525	B-4
R4529	B-4
R4534	B-4
R4538	B-4
R4539	B-4
R4540	B-4
R4553	B-5
R4557	C-5
R4572	A-4
R4601	B-5
R4602	B-5
R6001	C-2
R6002	C-2
R6003	C-2
R6004	C-2
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R6007	D-2
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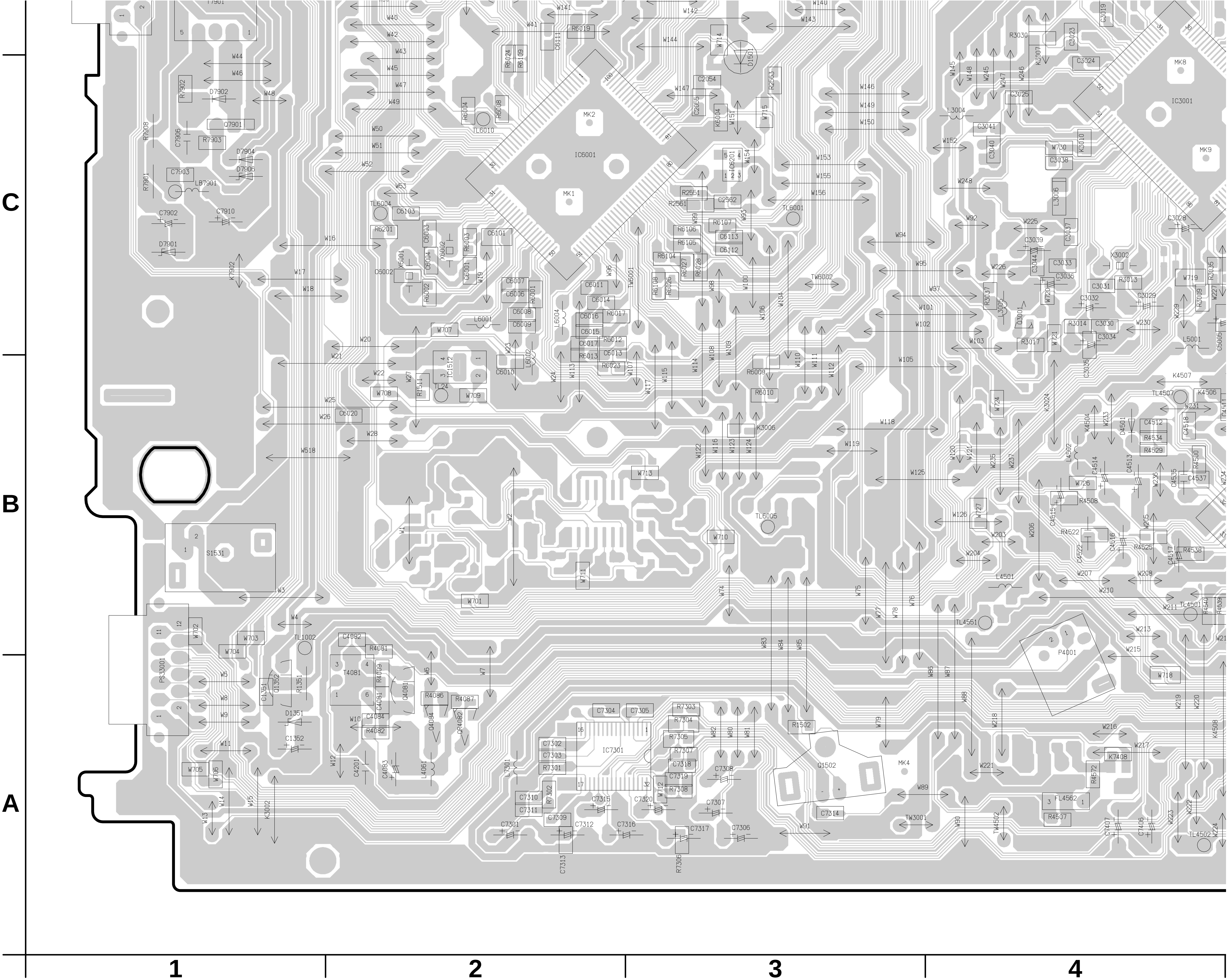
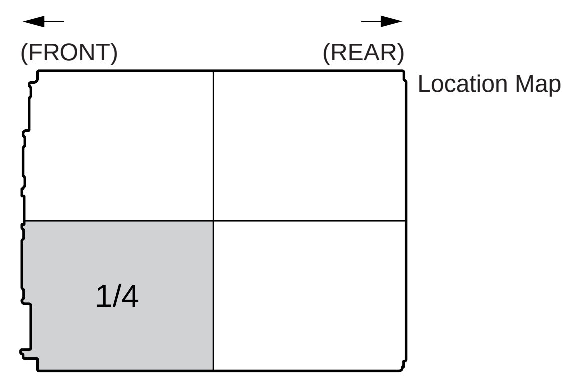
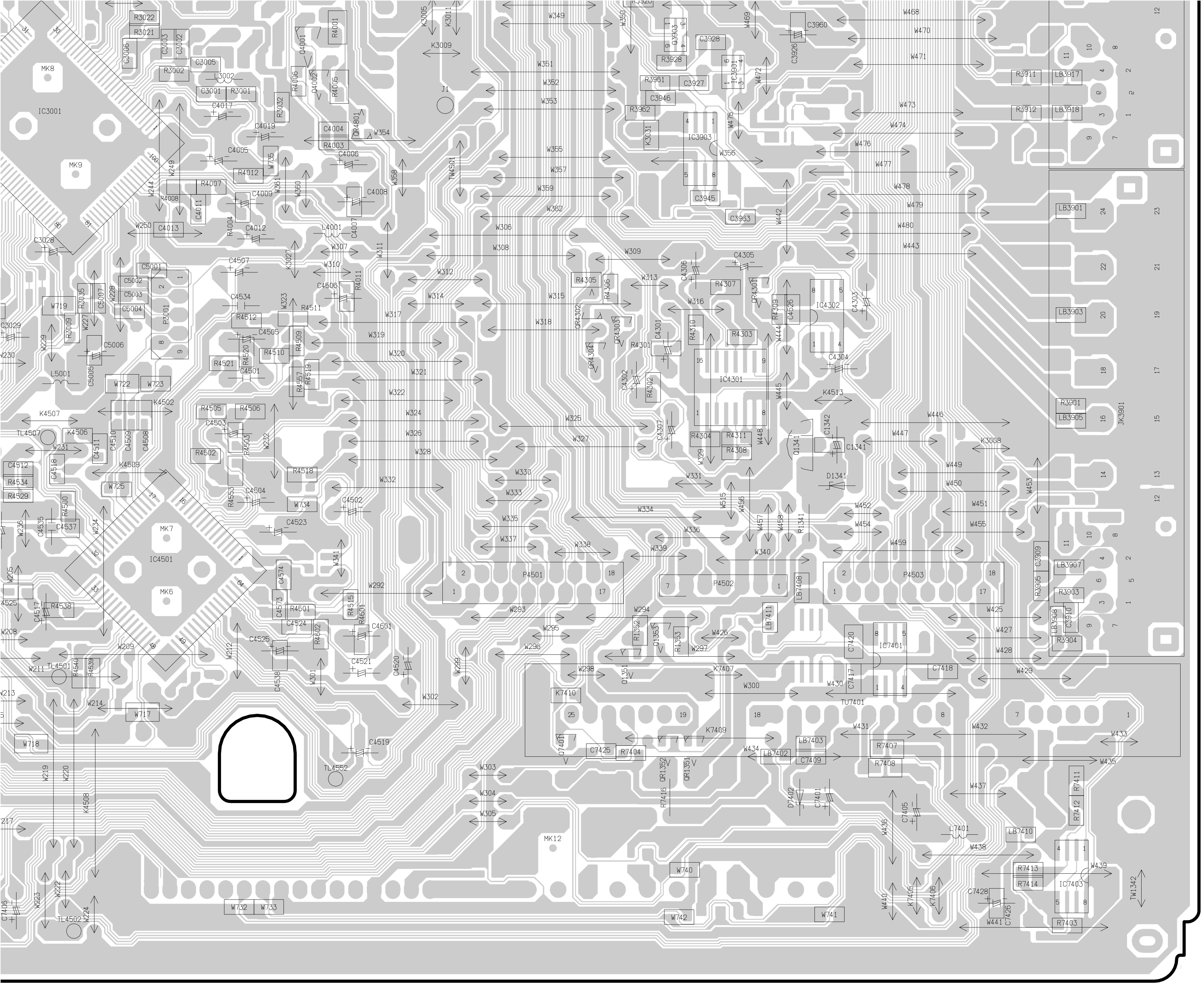
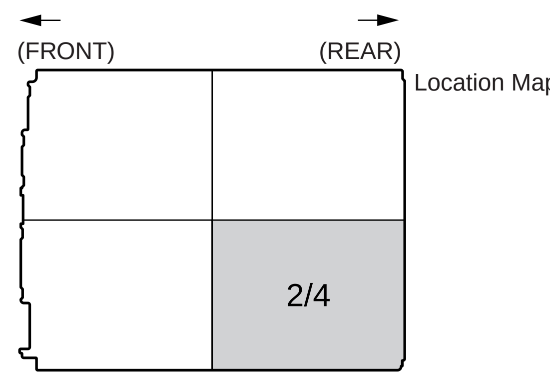
R6009	C-3
R6010	B-3
R6011	D-2
R6012	C-2
R6013	C-2
R6017	C-2
R6019	D-2
R6023	B-2
R6024	D-2
R6026	C-3
R6027	C-3
R6028	C-3
R6104	C-3
R6105	C-3
R6106	C-3
R6107	C-3
R6108	C-3
R6109	D-2
R6201	C-2
R6309	E-1
R7301	A-2
R7302	A-2
R7303	A-3
R7304	A-3
R7305	A-3
R7306	A-3
R7307	A-3
R7308	A-3
R7403	A-7
R7404	A-6
R7407	A-7
R7408	A-7
R7411	A-7
R7412	A-7
R7413	A-7
R7414	A-7
R7416	A-6
R7751	E-2
R7901	C-1
R7902	C-1
R7903	C-1
R7904	D-1
R7905	E-1
R7906	F-1
R7907	D-1
R7908	C-1
R7909	D-1
R7910	F-1
Transformer	
T4081	A-2
T7901	D-1
Backup Battery	
B7751	E-1





DMR-E75VP
Main P.C.B. (VEP06F77BT)
(1/4 Section)

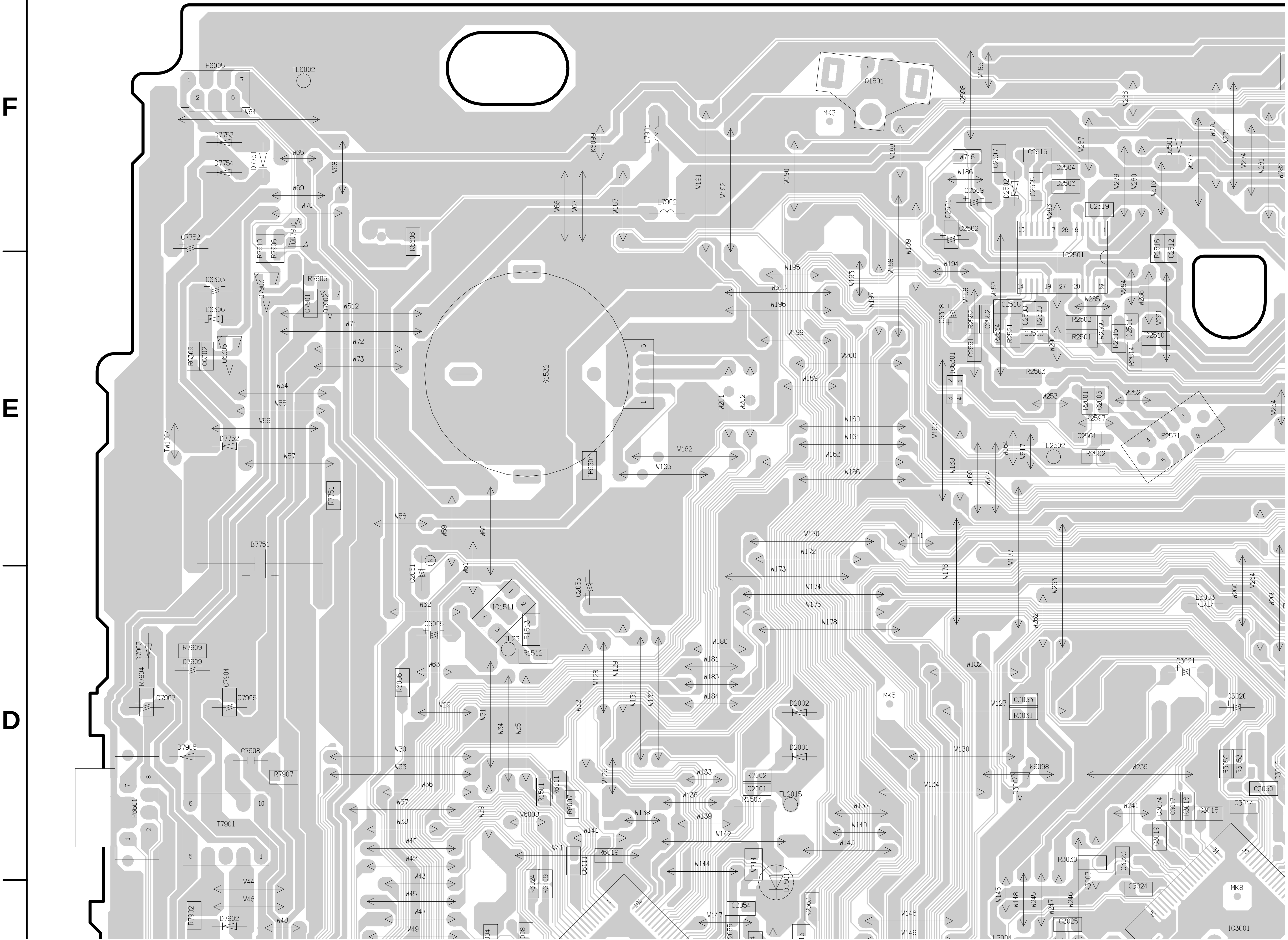


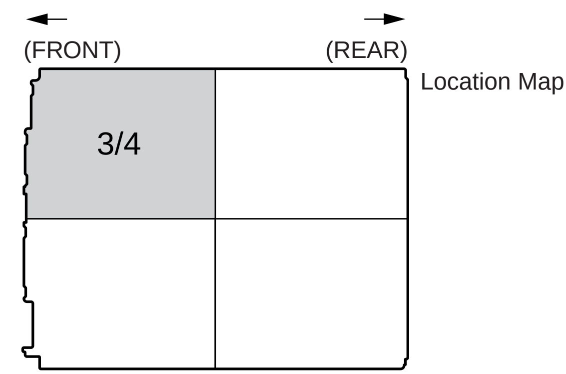


DMR-E75VP
Main P.C.B. (VEP06F77BT)
(2/4 Section)

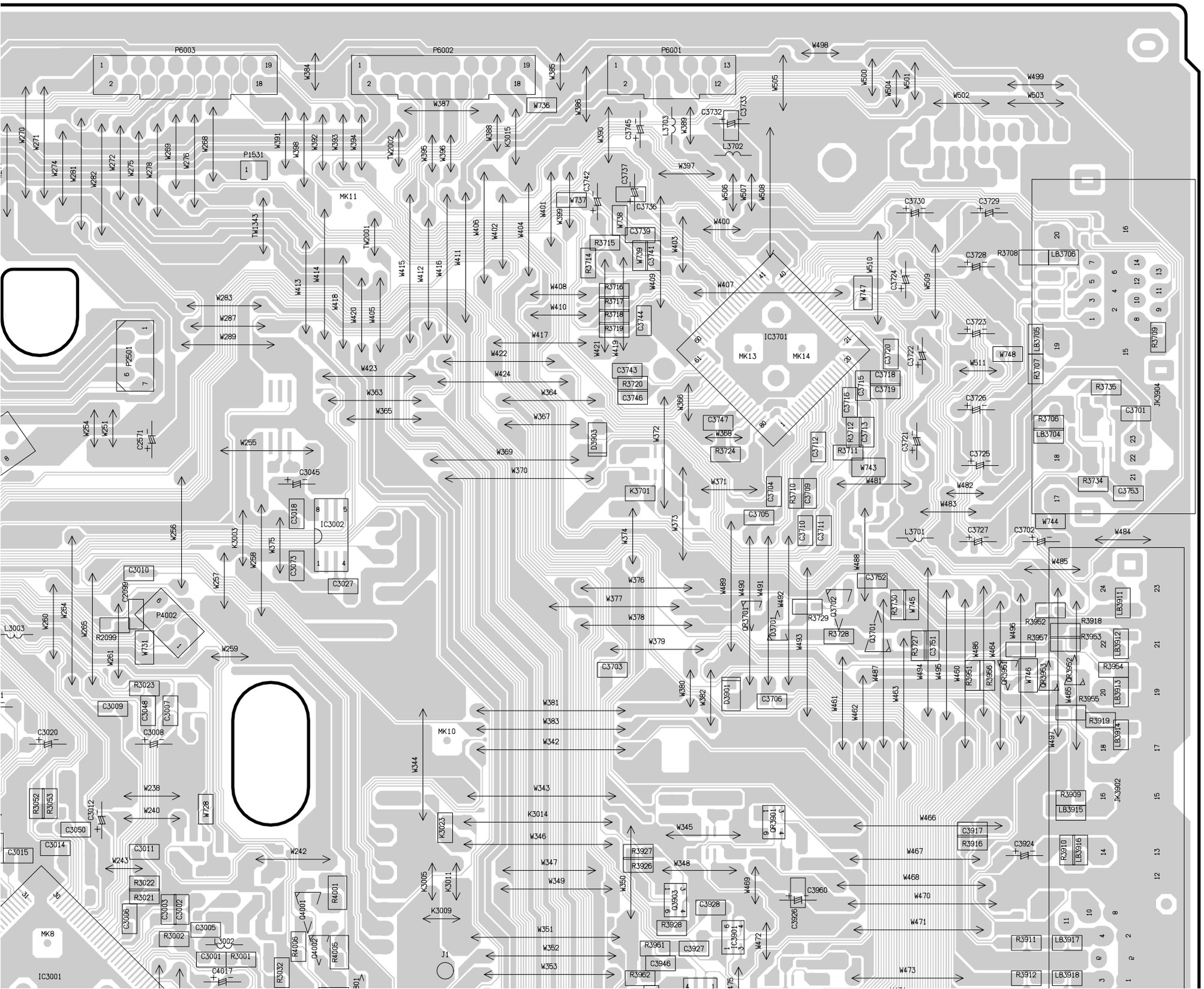
	5	6	7	8

Main P.C.B.





DMR-E75VP
Main P.C.B. (VEP06F77BT)
(3/4 Section)



(FRONT) (REAR)

Location Map

DMR-E75VP
Main P.C.B. (VEP06F77BT)
(4/4 Section)

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

IC6001
MN2DS0010-H
(AVDEC/MAIN CPU)

DMR-E75VP AVDEC/Main CPU Section (Digital P.C.B.(3/4)) Schematic Diagram (MC)

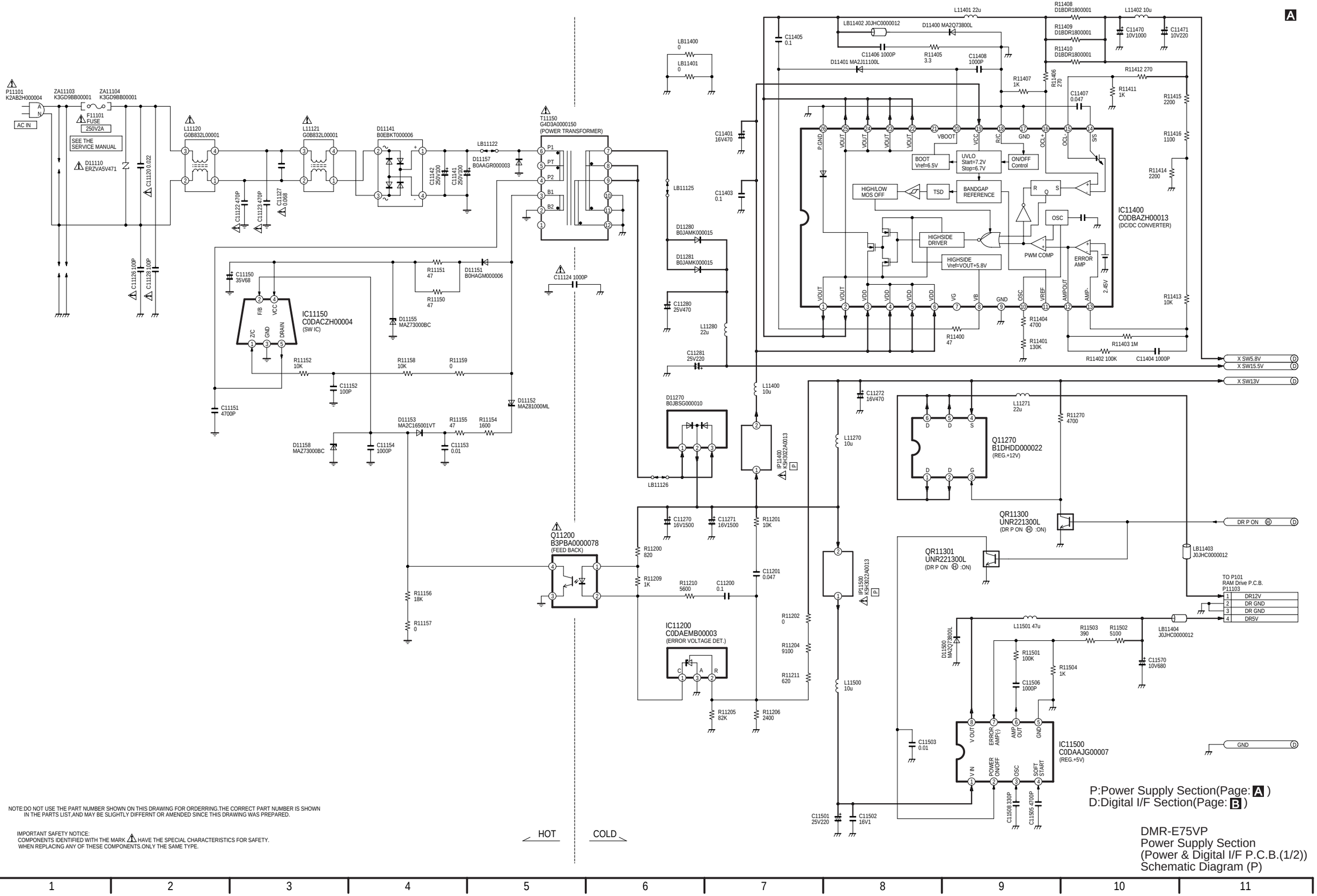
GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

IC6001
MN2DS0010-H
(AVDEC/MAIN CPU)

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

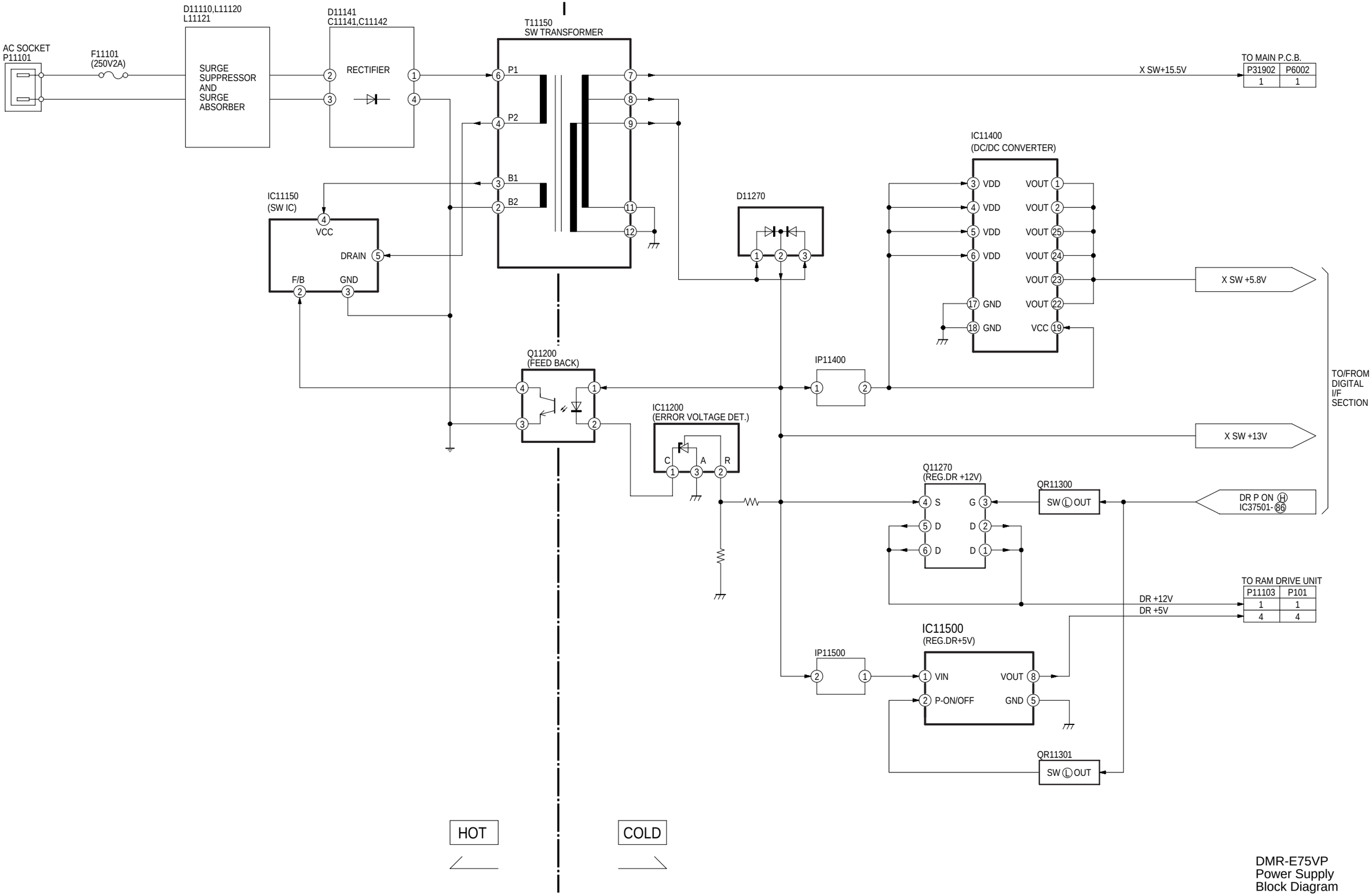
DMR-E75VP
AVDEC/Main CPU Section
(Digital P.C.B.(3/4))
Schematic Diagram (MC)

DMR-E75VP AVDEC/Main CPU Section (Digital P.C.B.(3/4)) Schematic Diagram (MC)



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

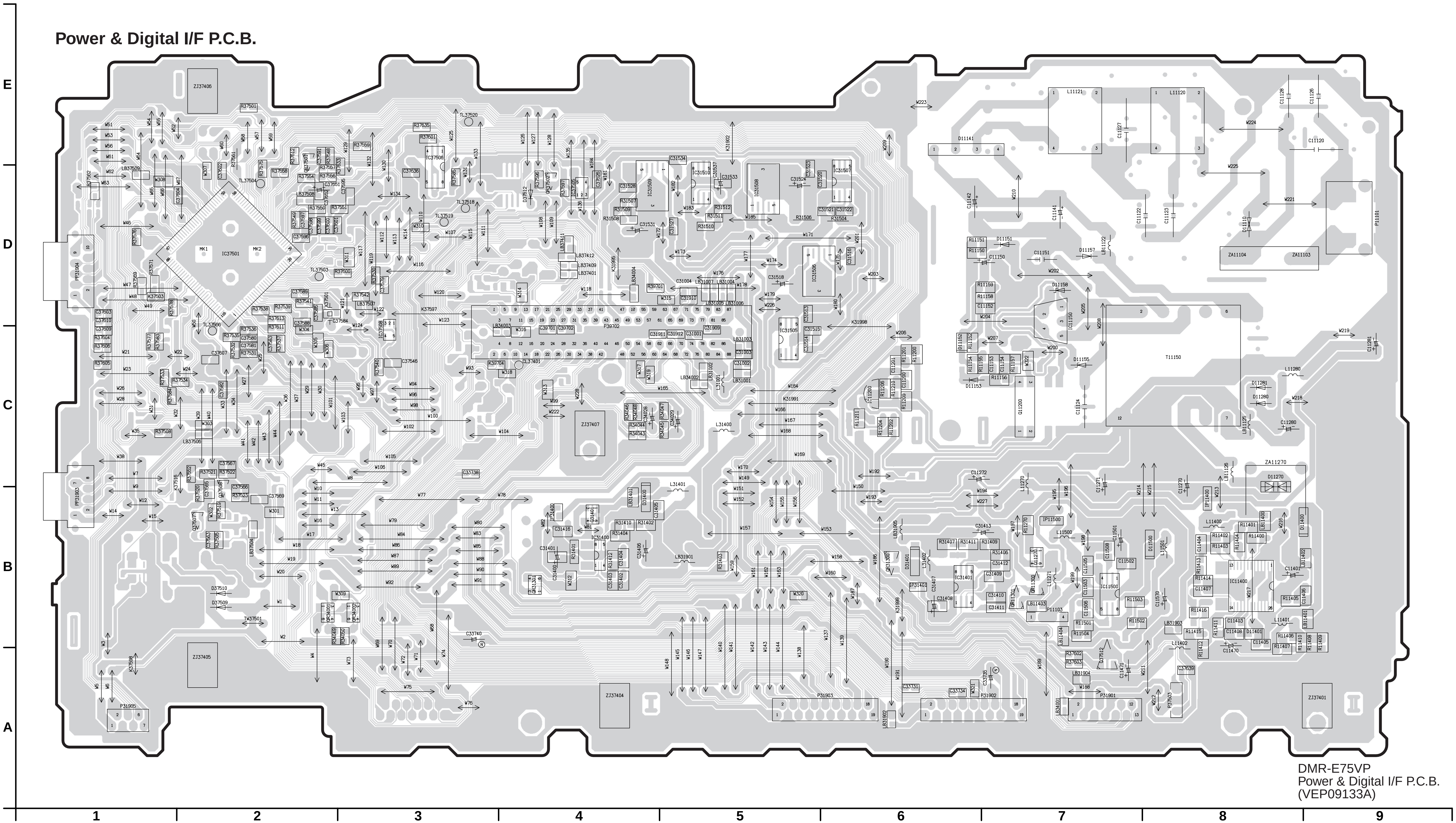


DMR-E75VP
Power Supply
Block Diagram

Power&Digital I/F P.C.B.

Integrated Circuit	
IC11150	D-7
IC11200	C-6
IC11400	B-8
IC11500	B-7
IC31400	B-4
IC31401	B-6
IC31505	C-5
IC31506	D-5
IC31507	D-6
IC31508	D-5
IC31509	D-4
IC31510	D-5
IC37501	D-2
IC37505	D-4
IC37506	D-3
IC37508	C-3
Transistor	
Q11200	C-7
Q11270	B-7
Q31401	B-4
Q37507	B-2
Q37508	B-2
Q37512	A-7
Transistor-resistor	
QR11300	B-7
QR11301	B-7
QR31300	B-6
QR31301	B-4
QR34001	B-2
QR34002	B-3
QR37501	E-2
QR37502	D-4
Test Point	
CL37401	C-4
TL37503	D-2
TL37504	D-2
TL37518	D-3
TL37519	D-3
TL37520	E-3
TL37566	C-2
TW37501	B-2
Connector	
P11101	D-9
P11103	B-7
P31901	A-7
P31902	A-6
P31903	A-6
P31905	A-1
P37503	A-8
P39702	C-4
PP31903	B-1
PP31904	D-1
Diode	
D11110	D-8
D11141	E-6
D11151	D-7
D11152	C-6
D11153	C-6
D11155	C-7
D11157	D-7
D11158	D-7
D11270	C-8
D11280	C-8
D11281	C-8
D11400	B-8
D11401	B-8
D11500	B-8
D31400	B-4
D31401	B-6
D37509	B-2
D37510	B-2
D37512	D-4
Crystal Osillator	
X37501	D-2
IC Protector	
IP11400	B-8
IP11500	B-7
IP31400	B-4
IP31401	B-6
Coil	
L11120	E-8
L11121	E-7
L11270	C-7
L11271	B-7
L11280	C-8
L11400	B-8
L11401	B-8
L11402	B-8
L11500	B-7
L11501	B-8
L31001	C-5
L31400	C-5
L31401	B-5
L31402	B-6
LB11122	D-7
LB11125	C-8
LB11126	C-8
LB11400	B-8
LB11401	B-9
LB11402	B-8
LB11403	B-7
LB11404	B-7
LB31001	C-5
LB31002	C-5
LB31003	C-5
LB31004	D-5
LB31005	D-5
LB31006	D-5
LB31007	D-5
LB31401	B-4
LB31901	B-5
LB31902	A-6
LB31903	B-8
LB31904	A-7
LB31905	B-6
LB34001	A-7
LB34002	C-5
LB34003	C-4
LB34004	D-4
LB37401	D-4
LB37409	D-4
LB37411	D-4
LB37412	D-4
LB37504	B-2
LB37506	C-2
LB37507	D-3
LB37508	D-2
LB37509	D-1
Capacitor	
C11120	E-9
C11122	D-8
C11123	D-8
C11124	C-7
C11126	E-9
C11127	E-7
C11128	E-8
C11141	D-7
C11142	D-6
C11150	D-7
C11151	D-7
C11152	D-7
C11153	C-7
C11154	C-7
C11200	C-6
C11201	C-6
C11270	C-8
C11271	C-7
C11272	C-6
C11280	C-8
C11281	C-9
C11401	B-8
C11403	B-8
C11404	B-8
C11405	B-8
C11406	B-8
C11407	B-8
C11408	B-8
C11470	B-8
C11471	A-7
C11501	B-7
C11502	B-7
C11503	B-7
C11505	B-7
C11506	B-7
C11508	B-7
C11570	B-8
C31001	C-5
C31002	C-5
C31003	C-5
C31004	D-5
C31400	B-4
C31401	B-4
C31402	B-4
C31403	B-4
C31404	B-4
C31405	B-5
C31406	B-4
C31407	B-6
C31408	B-6
C31409	B-7
C31410	B-7
C31411	B-7
C31412	B-7
C31413	B-7
C31416	B-4
C31513	D-5
C31514	C-5
C31515	C-5
C31516	D-6
C31518	D-5
C31520	D-6
C31521	D-6
C31522	D-6
C31523	D-5
C31524	D-5
C31527	D-5
C31528	D-4
C31531	D-4
C31533	D-5
C31534	E-5
C31537	D-5
C31909	C-5
C31910	D-5
C31911	C-4
C31912	C-5
C33731	A-6
C33734	A-6
C33735	A-7
C33738	C-3
C33740	B-3
C34028	C-4
C34029	C-5
C37546	C-3
C37563	B-2
C37565	B-2
C37566	B-2
C37567	C-2
C37569	B-2
C37579	D-3
C37580	C-2
C37581	C-2
C37582	C-2
C37583	C-2
C37584	D-2
C37585	D-2
C37588	D-2
C37589	D-2
C37591	E-2
C37595	D-3
C37596	D-2
C37597	D-2
C37598	D-2
C37599	D-2
C37600	D-2
C37601	D-3
C37602	D-2
C37603	D-1
C37604	D-2
C37607	C-2
C37609	C-1
C37610	D-1
C37626	D-4
C37636	D-3
C37639	A-8
C37651	D-2
C37652	D-2
C39701	C-4
C39702	C-4
Resistor	
R11150	D-6
R11151	D-6
R11152	C-6
R11154	C-6
R11155	C-7
R11156	C-7
R11157	C-7
R11158	D-7
R11159	D-7
R11200	C-6
R11201	C-6
R11202	C-6
R11204	C-6
R11206	C-6
R11209	C-6
R11210	C-6
R11211	C-6
R11270	B-7
R11400	B-8
R11401	B-8
R11402	B-8
R11403	B-8
R11404	B-8
R11405	B-8
R11406	B-8
R11407	B-8
R11408	B-9
R11409	B-9
R11410	B-8
R11411	B-8
R11412	B-8
R11413	B-8
R11414	B-8
R11415	B-8
R11416	B-8
R11501	B-7
R11502	B-7
R11503	B-7
R11504	B-7
R31401	B-4
R31402	B-4
R31403	B-5
R31404	B-4
R31406	B-7
R31407	B-6
R31409	B-7
R31410	B-4
R31411	B-6
R31412	B-4
R31504	D-6
R31506	D-5
R31507	D-4
R31508	D-4
R31509	D-4
R31510	D-5
R31511	D-5
R31512	D-5
R34043	C-4
R34044	C-4
R34045	C-5
R34046	C-4
R34047	C-5
R34048	C-4
R34049	B-3
R34050	B-3
R37501	E-2
R37505	B-2
R37508	C-1
R37519	B-2
R37520	B-2
R37521	C-2
R37522	C-2
R37523	B-2
R37530	D-3
R37531	C-2
R37532	C-2
R37533	C-1
R37534	C-2
R37535	C-2
R37536	C-2
R37537	C-2
R37538	D-2
R37539	D-2
R37540	C-3
R37541	D-2
R37542	D-3
R37548	E-2
R37549	D-2
R37550	D-2
R37551	D-3
R37552	C-2
R37554	D-2
R37556	D-2
R37557	D-2
R37558	D-2
R37559	E-3
R37561	E-2
R37562	D-1
R37569	D-1
R37571	D-1
R37575	D-2
R37576	D-1
R37577	C-1
R37578	D-2
R37583	C-1
R37584	C-2
R37585	D-3
R37596	D-4
R37597	D-4
R37600	D-3
R37601	E-3
R37602	A-7
R37603	A-7
R37604	C-1
R37605	C-1
R37606	C-1
R37611	C-2
R37612	E-2
R37613	D-2
R37633	D-3
R37635	E-3
R39701	D-4
Transformer	
T11150	C-8

Power & Digital I/F P.C.B.



DMR-E75VP
Power & Digital I/F P.C.B.
(VEP09133A)

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
C

S:Syscon/Servo/Timer Section(Page: C)
A:Hi-Fi Audio Section(Page: D)
V:Video Section(Page: E)

TO P31901
POWER AND DIGITAL I/F P.C.B.
(DIGITAL I/F SECTION)
P6001
X SW5.8V 1
X SW5.8V 2
X SW13V 3
X SW13V 4
IECOUT 5 A1
ANA5V 6
GND 7
GND 8
9
10
SCURVE0 11 A4
SCURVE1 12 A5
GND 13

TO P31905
POWER AND DIGITAL I/F P.C.B.
(DIGITAL I/F SECTION)
P6005
REG.5.2V 1
REMOCON 2 A6 A7
GND 3
FL MUTE (L) 4
VTR CS 5 A8
P SAVE (H) 6 A9
AD5V 7

TO P31902
POWER AND DIGITAL I/F P.C.B.
(DIGITAL I/F SECTION)
P6002
X SW15.5V 1
MGND 2
GND 3
CPNCIN DM 4
GND 5
V YIN DM 6
GND 7
COUT DM 8 A11
GND 9
YOUT DM 10 A12
GND 11
GPYOUT DM 12 A13
BPBOUT DM 13 A14
RPROUT DM 14 A15
15
DGND 16
DGND 17
ADC R 18
ADC L 19

A ADC L
A ADC R
V V Y IN DM
V CPN C IN DM
V DGND

MODE SW
S1532
K0ZZ00000598
1 A16
2 A17
3 A18
4 A19
G 5

V FSC
V OSD VIDEO IN
V ART V H N A20
A V DVD OUT (H) A22
A V VIDEO HEAD SW A23
A V AUDIO HEAD SW A24
A V D REC (H) A25
A V ABS NORMAL (L) A26
V BIAS (H) A28
A V FM MUTE (H) A29
V DVD IN (H) A30
A INSEL A A31
A INSEL B A32
A V VTR P ON (H) A33
V AVR (L) A34
V KILLER
V VREG5V
V CTL HEAD (-) A36
V CTL HEAD (+) A37
V TRK ENV A48
V OSD GND
V SYS GND

TO PP7503
FL DRIVE P.C.B.
P6601
1
2
3 GND
4
5 GND
6 VP
7 F+
8 F-

TO PP4801
FRONT JACK P.C.B.
PS33001
1 5V AD
2 VTR KEY1
3 IR
4 VIDEO L2 IN
5 VTR KEY2
6 AUDIO L2 IN L
7 L2 SW
8 AUDIO L2 IN R
9 CPN C IN2
10 GND
11 CPN Y IN2
12 GND

CPN Y IN2 A V
CPN C IN2 A V
AUDIO L2 IN R A
L2 DET A V
AUDIO L2 IN L A
VIDEO L2 IN V
CPS DET A

QR7901
UNR511100L
(FL MUTE)
R7910
10K
Q7903
2SD132800L
(FL MUTE)

C7752
6V330
D7753
B0AAED000003
D7751
B0JACE000001
D7752
MA2C700A0F
D7754
B0AAED000003
R7751
1K
B7751
CR2354-1GUF
BACK-UP
BATTERY
TW1004

IC6201
C0EBH0000172
(RESET)
GND 3
VDD 2
OUT 1
(RESET)
TL6004
TL6002
R6201
3300
C6103
0.01
X6002
H0A327200064
(32KHz)
C6003 18P
C6004 22P
R6003 22K
C6101
0.1
C6001 18P
C6002 22P
R6002 1K
X6001
H0D120500009
(12MHz)
L6001
5.6u
C6006
100P
C6007
82P
C6010
0.01
L6002
C6013
1
R6001 1K
C6009
0.01
C6008
470P
R6013
1M
R6012
470
C6017
560P
C6014 1000P
C6011
0.01
L6004
1.5u
R6017
2200
C6016
1000P
C6015
0.033
R6023
180

R6004
10K
TL6010
TEST2
R6007 18K
R6011 18K
R6006 18K
SAFETY
TAB SW
S1531
K0C111A00003
TW2001
HSW
R6008 2200
R6024 220
R6109 220
C6020 1000P
TW6008
C6005 50V3.3
R6019 10K

IC6001
C2CBJG000368
(SYSCON/SERVO/TIMER)

31 POS.SW3
32 POS.SW2
33 POS.SW1
34 RESET (L)
35 32KHz IN
36 32KHz OUT
37 5V(D)
38 12MHz IN
39 12MHz OUT
40 GND(OSC)
41 S-DUB (H)
42 S-VHS (H)
43 32K.START (L)
44 LC.OSC IN
45 LC.OSC OUT
46 GND(NUB)
47 FSC.LPF
48 OSD FSC IN
49 GND(OSD)
50 OSDVIDEO1

30 POS.SW4
29 INSEL B
28 FM.MUTE (H)
27 S TAB (L)
26 BIAS (H)
25 PBx5 (H)
24 AVR (L)
23 ABS NORMAL (L)
22 TBC MODE 0
21 TEST2
20 D.REC (H)
19 AUDIO H SW
18 VIDEO H SW
17 V TO H LED (H)
16 W (H)
15 VTR TIMER CS
14 REMOCON
13 ART. V/H/N
12 EEPROM CS
11 CURRENT LIMIT (H)
10 BIL/STI/MO
9 TRACKING ENVE
8 T-PHOTO
7 S-PHOTO
6 VTR KEY2
5 VTR KEY1
4 DVD IN WIDE
3 INSEL A
2 CODE
1 DVD OUT (H)

100 CPS DET A47
99 5V(AD)
98 5V(A) G
97 PB.CTL.OUT
96 CTL.AMP REF.
95 CTL.HEAD(+) A37
94 CTL.HEAD(-) A36
93 S-CAS (H)
92 IREF
91 OREF
90 CYL.PFG A54
89 JST.CLOCK
88 GND(A)
87 CAP FG AMP IN
86 CAP FG AMP OUT
85 VPP
84 LOADING (H)
83 UNLOADING (H)
82 EXCEPT FF/REW (L)
81 H TO D LED (H)

C2051 6V22
TW2002
PB CTL
K6606 0
C2053
16V10
C2054
3900P
K6004 0
C2001 33P
R2002 1M
C2055 0.1
D2001
B0AAED000003
D2002
B0AAED000003
CAP FG
TL2015
R2001
3900
C2003
1
K6098

51 KILLER
52 OSD VIDEO OUT
53 VREG+5V
54 HLF
55 VHOLD
56 OSD VIDEO2
57 GND
58 DTOH LED (H)
59 ADV CPN (H)
60 OSD P EP (H)
61 SQPBDET (H)
62 OSD PULSE CHL
63 VB2
64 VB1
65 EEPROM OUT
66 EEPROM IN
67 EEPROM CLOCK.
68 VTR S OUT
69 VTR S IN
70 VTR S CLOCK
71 IIC CLK
72 IIC DATA
73 256Hz
74 CAP R/F
75 POWER ON (H)
76 CAP ET
77 CYL ET
78 POWER FAILER (L)
79 S-REEL PULSE
80 T-REEL PULSE

TW6001
TW6002
R6108 220
R6104 220
R6105 220
R6106 220
R6107 220
TL6001
R6010 10K
R6009 10K
R6028 10K
R6027 10K
R6026 10K
R2561 1K
R2551 10K

A33
A38
I1
I3 I4 I5 I6 I7 I8 I9 I10 I11 I12 I13 I14 I15 I16 I17 I18 I19

DMR-E75VP
Syscon/Servo/Timer Section (Main P.C.B.(1/3) Schematic Diagram (S)

DVD AUDIO EE SIGNAL | DVD VIDEO EE SIGNAL | CAPSTAN SERVO SPEED LOOP | CAPSTAN SERVO PHASE LOOP | CYLINDER SERVO SPEED LOOP | CYLINDER SERVO PHASE LOOP

C

S:Syscon/Servo/Timer Section(Page: C)
A:Hi-Fi Audio Section(Page: D)
V:Video Section(Page: E)

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E75VP
Syscon/Servo/Timer Section (Main P.C.B.(1/3) Schematic Diagram (S)

DMR-E75VP
Syscon/Servo/Timer Section
(Main P.C.B.(1/3)
Schematic Diagram (S)

12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22

MAIN P.C.B.

IC0201 (CAPSTAN MOTOR DRIVE)

CAPSTAN MOTOR COILS
A1 (15)
A2 (16)
A3 (17)
MOTOR DRIVE
DIFFERENTIAL AMPLIFIRE
TORQUE CONTROL
TL AMP
TL (9)
EC AMP
EC (10)
DEF AMP
POSITION SIGNAL PROCESS
TORQUE DIRECTION SELECT
ED/S (11)
HALL
H3- (22)
H3+ (23)
H1- (24)
H1+ (25)
H2- (26)
H2+ (27)
VH+ (21)
HALL POWER
VM (19)
X SW +15.5V
P0201 P2571 2
TL2502 CAP TL
P0201 P2571 5
P0201 P2571 6
P0201 P2571 7
CAPSTAN FG HEAD
P0201 P2571 3
TL2015 CAP FG
CAP FG OUT (86)
CAP FG IN (87)

IC6001 (SYSTEM CONTROL/SERVO/TIMER)
CURRENT LIMIT H (11)
CAP ET (76)
CAP R/F (74)
32KHz IN (35)
32KHz OUT (36)
X6002 (32KHz)
12MHz IN (38)
12MHz OUT (39)
X6001 (12MHz)
5V(D) (37)
BACK-UP BATTERY B7751
+5V
IC6201 (RESET)
P.FAIL L (78)
RESET L (34)
OUT (1)
+5V (2)
TL6004
TL6002
IC6301 (SWITCHING REG.)
+5V
OUT (1)
IN (4)
SW (3)
X SW+5.8V
FROM POWER
POWER ON H (75)
VTR TIMER CS (15)
VTR DATA OUT (68)
VTR DATA IN (69)
VTR DATA CLK (70)
P6005 P31905 5
P6003 P31903 2
P6003 P31903 5
P6003 P31903 4
P6005 P31905 2
TO/FROM POWER & DIGITAL I/F P.C.B.

IC2501 (LOADING MOTOR & CYLINDER MOTOR DRIVE)
LOADING MOTOR
P1531 1
P1531 2
OUT 1 (2)
OUT 2 (4)
AMP
PRE-DRIVE
CONTROL LOGIC
F IN (5)
R IN (6)
LOADING H (84)
UNLOADING H (83)
CYLINDER MOTOR COILS
M1 (22)
M2 (23)
M3 (25)
MOTOR DRIVE
PRE-DRIVE
MOTOR DRIVE SIGNAL GENERATOR
SELECTOR
DIFFERENTIAL AMPLIFIRE
COM (20)
O REF (91)
CTL AMP REF (96)
VCC (19) +5V
PG COIL
PG+ (15)
PG- (16)
PG OUT (17)
DIFFERENTIAL AMPLIFIRE
FG/PG COMPOSER
DIFFERENTIAL AMPLIFIRE
(14)
CYL ET (77)
CYL PFG (90)

TL6001
256Hz (73)
CONTROL HEAD
P4002 5
P4002 6
CTL HEAD(-) (94)
CTL HEAD(+) (95)
TW2002 PB CTL
EX.FF/REW L (82)
PB CTL OUT (97)
MODE SW S1532
SW1 (33) POSITION SW1
SW2 (32) POSITION SW2
SW3 (31) POSITION SW3
SW4 (30) POSITION SW4
T.PHOTO (8)
S.PHOTO (7)
SAFETY TAB L (27)
Q1501 TAKE-UP PHOTO SENSOR
D1501 SENSOR LED
Q1502 SUPPLY PHOTO SENSOR
S1531 SAFETY TAB SW
IC1511 (T-REEL SENSOR)
IC1512 (S-REEL SENSOR)
TL24
S.REEL (79)
TL23
T.REEL (80)

IC7801 (REMOCON CTL.RECEIVER)
FRONT JACK P.C.B.
REMOCON (14)
PS33001 PP4801 3 10
IR (1)
+5V (3)
VTRKEY 2 (6)
PS33001 PP4801 5 8
VTRKEY 1 (5)
PS33001 PP4801 2 11
< VTR OPERATION KEY >
S7806 POWER
S7805 FF
S7803 SKIP-R
S7802 STOP
S7801 CH-UP
S7813 EJECT
S7812 REW
S7810 SKIP-F
S7809 CH DN
S7808 PLAY
S7807 REC

DMR-E75VP
System Control,Servo & Timer
Block Diagram

POWER & DIGITAL I/F P.C.B.

FL DRIVE P.C.B.

IC37501
(DIGITAL I/F & TIMER CPU)

(LPF)

B,C

31 LP2FSC

32 LP3FSC

33 LP4FSC

12 10MHz OUT

X37501

14 10MHz IN

TL37503

21 125Hz

TO/FROM
MAIN P.C.B.

P6005 | P31905 5

P6003 | P31903 5

P6003 | P31903 2

P6003 | P31903 4

47 VTR
TIMER CS IN

42 VTR
S-DATA IN

43 VTR
S-DATA OUT

44 VTR
S-CLOCK

P6005 | P31905 2

2 REMOCON

IC37508
(RESET)

+5V

5

OUT 4

2

11 RESET

X SW +13V

IC37506
(FAN MOTOR DRIVE)

Q37512
(FAN MOTOR DRIVE)

1 3 7 5

23 FAN PWN
OUT

FAN MOTOR

M

P37503 1

P37503 3

64 FAN LOCK H

FROM
DIGITAL
P.C.B.

P9001 | P39702 33

1 TBUS CLK

FL ON L 49

P31905 | P6005 4

AD +5V

QR7901
(FL L :ON)

T7901
(DC/DC
CONVERTER)

X SW +13V

4

1

5

Q7903
(FL H :ON)

FL(+)

FL(-)

P6601 | PP7503 7

P6601 | PP7503 8

MAIN P.C.B.

DP7501
TIMER DISPLAY

1 F+

2 F+

61 F-

62 F-

10G 49

7G 52

5G 54

1G 58

6G 53

P1 47 ~ P19 29

P20 21 ~ P36 5

AD +5V

Q7501
(FIP DRIVE)

9 SEG34 ~ 17 SEG26 19 SEG25 ~ 28 SEG16 29 SEG15 ~ 44 SEG00 45 SEG35

DIG04 59

DIG00 63

DIG03 60

DIG05 58

DIG09 64

FL RESET 84

FL CLS 87

FL CLK 6

FL TXD 4

FL RXD 5

PP31903 | PP7502 7

PP31903 | PP7502 6

PP31903 | PP7502 4

PP31903 | PP7502 2

1 RESET

2 CS

3 S CLOCK

4 S DATA

IC7502
(FIP DRIVE)

VCC 1 8

VCC 2 18

DUB LED H 73

PP31904 | PP7501 5

QR7510
(DUB LED DRIVE)

D7507

DUB

+5V

TIME
WARP LED H 67

PP31904 | PP7501 8

QR7501
(T-WARP LED DRIVE)

D7501

T-WARP

< DVD OPERATION KEY >

DVD
KEY IN1 96

PP31904 | PP7501 1

S7501
OPEN/CLOSE

DVD
KEY IN2 97

PP31904 | PP7501 2

S7502
TO DVD

S7505
CHUP

DVD
KEY IN3 104

PP31904 | PP7501 3

S7503
TO VHS

S7504
REC

S7507
PLAY

S7508
STOP

S7506
CHDN

SYS P FAIL H 81

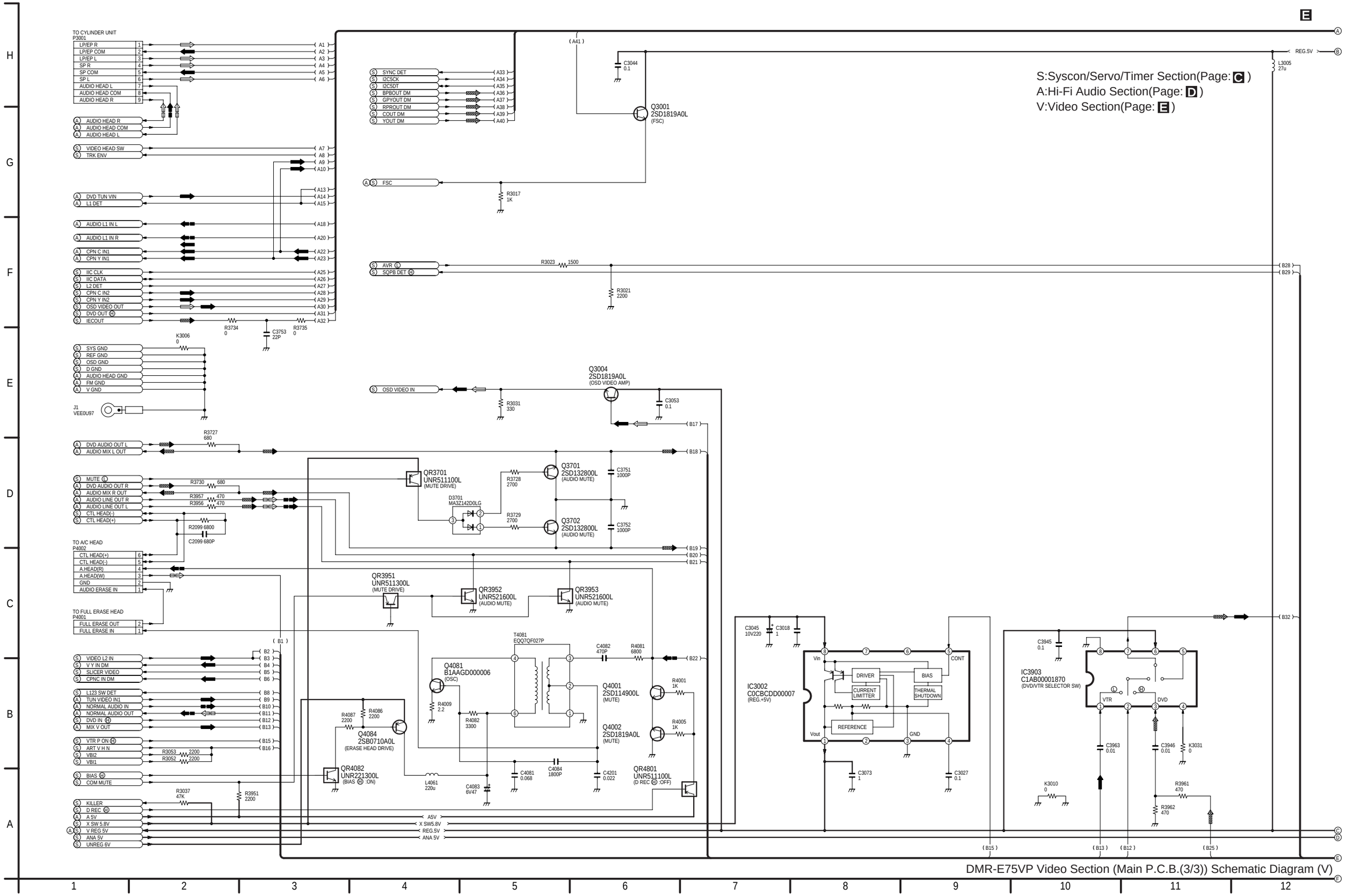
QR37502
INV.

IC37505
(RESET)

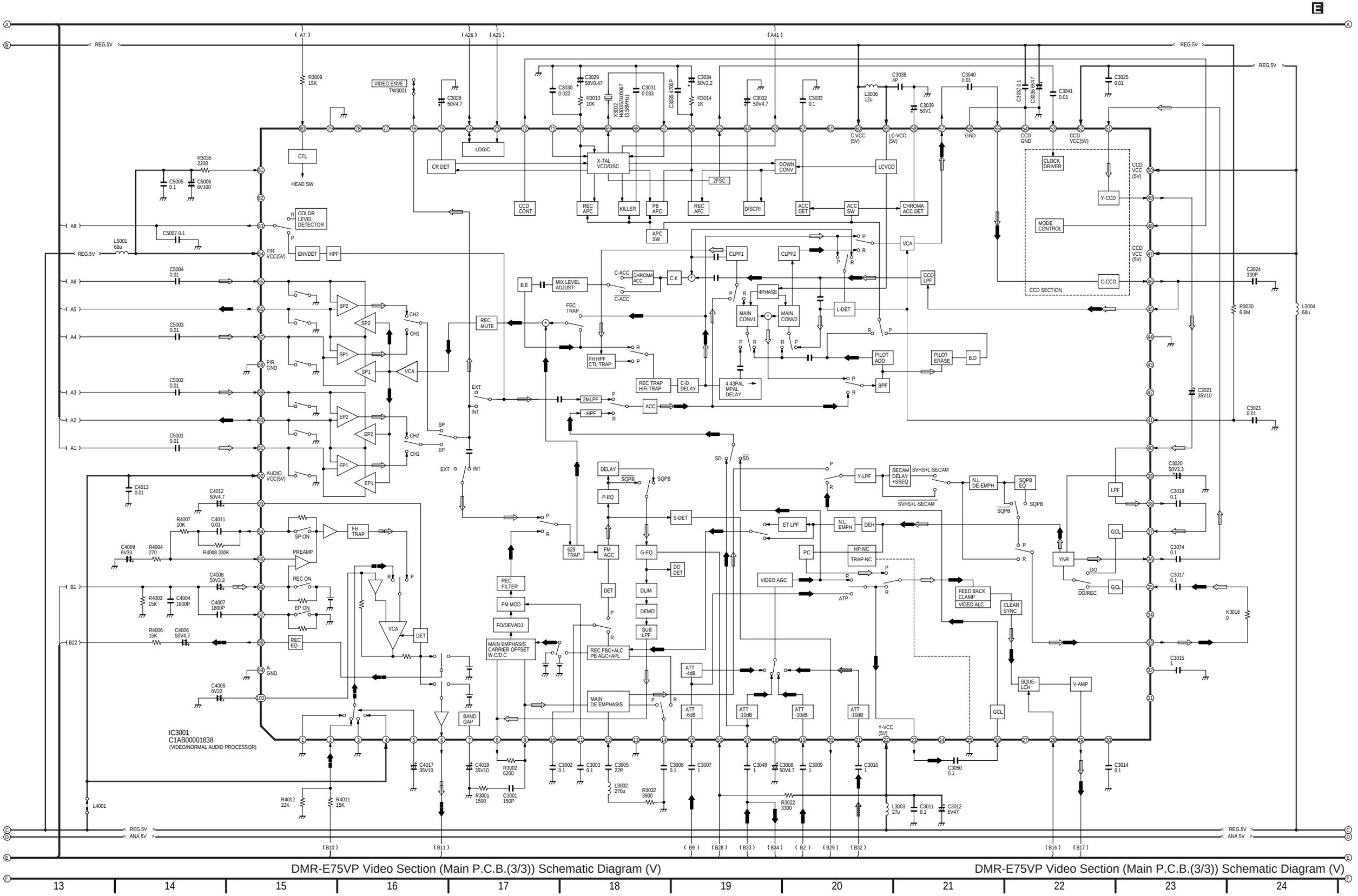
1 2 3

D +3.3V

DMR-E75VP
Digital I/F Timer
Block Diagram



DMR-E75VP Video Section (Main P.C.B.(3/3)) Schematic Diagram (V)



DMR-E75VP Video Section (Main P.C.B.(3/3)) Schematic Diagram (V)

DMR-E75VP Video Section (Main P.C.B.(3/3)) Schematic Diagram (V)

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
DVD VIDEO EE SIGNAL
DVD AUDIO EE SIGNAL

JK3904
K1U407B00003
(DIGITAL AUDIO JACK)

COMPONENT VIDEO OUT (480P/480I)
DIGITAL AUDIO OUT (PCM/BITSTREAM)
GND VCC IN

R3709 10K
LB3704 JOJCC0000103
LB3705 JOJCC0000103
LB3706 JOJCC0000103
R3706 75
R3707 75
R3708 75
C3701 0.1
C3702 6V47
L3701 22u

ANA 5V
(A32)

IC3701
C1AB00001979
(VIDEO I/O PROCESSOR)

(A40)
L3702 22u
C3733 0.01
C3732 6V47
C3730 6V1000
C3729 0.01
C3728 6V1000
C3727 6V100
C3726 6V1000
C3725 6V100
R3916 910Ω
C3717 0.01
C3724 6V100
C3723 6V1000
C3722 6V100
C3721 6V1000
C3720 0.01
C3718 0.01
C3719 0.01

DVCC1 DVD Y IN DRV GND1 PyG OUT PyG SAG PrR/C OUT PrR/C SAG PbB OUT PbB SAG S1/S2 OUT C/S OUT V/S SAG V/S OUT Y/S SAG Y/S OUT DRV VCC1 C3 IN S1/S2 DET3 DRV GND2 Y3 IN

(A39) DVD C IN
DRV GND3
(A38) DVD R/Pr IN
DRV VCC2
C3736 0.1
AV2 R/C IN
C3737 6V22
VREF
(A37) DVD G/Py IN
DET OUTB
C3739 0.1
AV2 G IN
TEST1
(A36) DVD B/Pb IN
DRV VCC3
C3741 0.1
AV2 B IN
C3742 6V22
VREG
R3715 100K R3714 15K
CLKR
SYN GND
R3716 220
(A35) SDA
R3717 220
(A34) SCL
R3718 33
SYNC DET OUT
R3719 33
V/C SYNC OUT

C/S DET3
VIDEO3 IN
SW GND2
C2 IN
S1/S2 DET2
ADR
Y2 IN
C/S DET2
VIDEO2 IN
DGND1
C1 IN
S1/S2 DET1
L1/L2/L3 DET OUTA
Y1 IN
C/S DET1
VIDEO1 IN
SW VCC2
DVD TUNER
DGND2

C3715 0.01
R3712 10K
C3713 0.01
C3716 0.01
R3711 0
C3711 0.01
D3903 B0ACCK000005
C3710 0.01
C3709 0.01
R3710 10K
C3712 0.01
C3706 0.01
D3901 B0ACCK000005
C3705 0.01
C3704 0.01
C3703 0.01

(A28)
(A29)
(A27)
(B3)
(A10)
(B8)
(A9)
(A13)
(B33)
(A14)
VTR OSD VIDEO

CLKJ MONI SEPA V IN SW AB OUT SYN VCC V/V OUT A LINE3 OUT SLICER VIDEO A LINE2 OUT C OU A TEST2 V/V OUT B SW VCC1 SLICER VIDEO B SGND C OUT B SW GND1 BLSW IN DVCC2 BLSW OUT TEST3

C3744 0.1
C3745 6V47
C3746 0.1
C3743 0.033
R3720 1M
C3747 0.1
R3724 75
K3701 0

L3703 22u
REG.5V
ANA 5V
(B4) (B5) (B6) (B25)

C3927 1
K3023 0
C3928 1
(A30)
(A31)
IC3901
C1AB00001935
(DVD/VTR SELECTOR SW)
VTR (L)
DVD (H)
C3926 0.1
C3960 6V100
C3924 6V470

R3928 1K
Q3903
XN0460100L
(BUFFER)
K3014
R3926 560
R3927 560

REG.5V

S:Syscon/Servo/Timer Section(Page: C)
A:Hi-Fi Audio Section(Page: D)
V:Video Section(Page: E)

JK3902
K1U714B00001
(REAR OUTPUT JACK)

(B19) R3952 220 LB3911 JOJCC0000103 DVD R OUT
(B20) R3953 470 R3918 100K LB3912 JOJCC0000103 VHS/DVD COMMON R OUT
R3954 220 LB3913 JOJCC0000103 DVD L OUT
(B18)
(B21) R3955 470 R3919 100K LB3914 JOJCC0000103 VHS/DVD COMMON L OUT
R3909 75 LB3915 JOJCC0000103 DVD V OUT
R3910 68 LB3916 JOJCC0000103 VHS/DVD COMMON V OUT
R3911 75 LB3917 JOJCC0000103
R3912 75 LB3918 JOJCGC0000103 DVD S-VIDEO OUT
AUDIO
VIDEO

JK3901
K1U412B00002
(REAR INPUT JACK)

(A20) LB3901 JOJCC0000103 LINE IN1(R)
LINE IN3(R)
(A18) LB3903 JOJCC0000103 LINE IN1(L)
LINE IN3(L)
(B34) LB3905 JOJCC0000103 L1 IN
R3901 75
VIDEO IN
L3 IN
(A22) LB3907 JOJCC0000103
(A15) R3903 1K
R3905 75 C3910 0.1
C3909 0.01
(A23) LB3908 JOJCC0000103
R3904 75
AUDIO IN
S-VIDEO L1 IN

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E75VP
Video Section (Main P.C.B.(3/3))
Schematic Diagram (V)

DMR-E75VP Video Section (Main P.C.B.(3/3)) Schematic Diagram (V)

25 26 27 28 29 30 31 32 33 34 35 36